

The **CONSTRUCTOR**



BUILDINGS

HIGHWAYS

AIRPORTS

RAILROADS

PUBLIC WORKS

DEFENSE PROJECTS



A. G. C.
DIRECTORY ISSUE

JULY 1951 • \$2.00

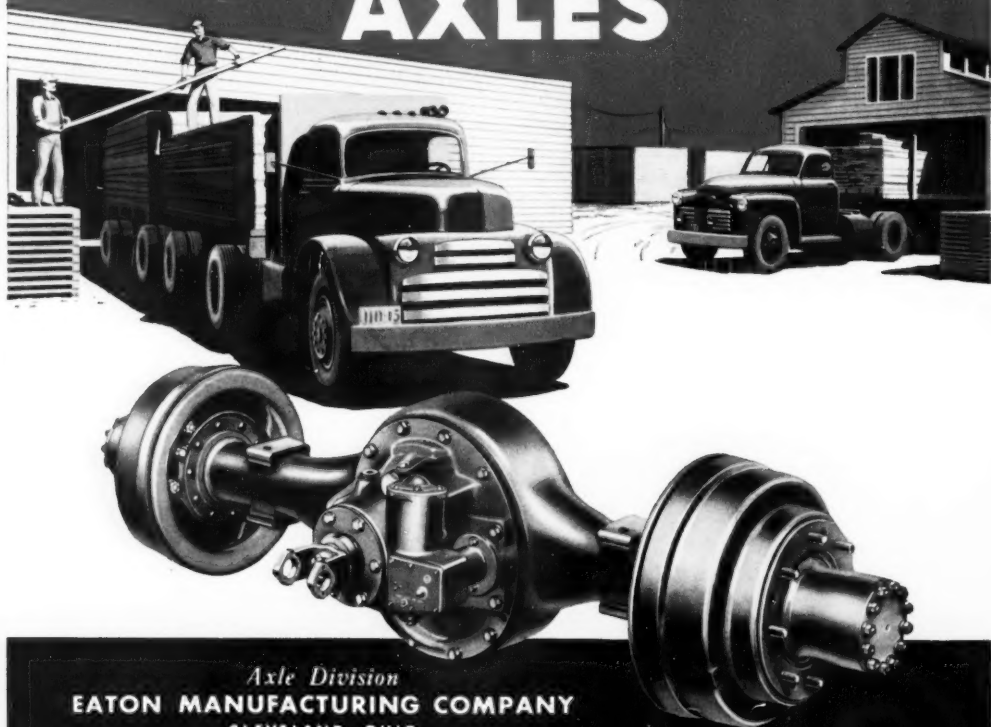


More Miles Per Day— More Miles in the Life of Your Trucks

Trucks with Eaton 2-Speed Axles "make time", not only on the open highway, but in city traffic as well. Even more important, Eaton 2-Speed Axles save wear-and-tear on engine and power transmitting parts; keep trucks in service, and add thousands of miles to vehicle life. Many exclusive features com-

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Axle Division
EATON MANUFACTURING COMPANY
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PRODUCTS: SODIUM COOLED, POPPET, AND FREE VALVES • TAPPETS • HYDRAULIC VALVE LIFTERS • VALVE SEAT INSERTS • JET ENGINE PARTS • ROTOR PUMPS • MOTOR TRUCK AXLES • PERMANENT MOLD GRAY IRON CASTINGS • HEATER-DEFROSTER UNITS • SNAP RINGS • SPRINGTITES • SPRING WASHERS • COLD DRAWN STEEL • STAMPINGS • LEAF AND COIL SPRINGS • DYNAMATIC DRIVES, BRAKES, DYNAMOMETERS



RYEX EXPANDED METAL

Available Now from Ryerson—for Every Use

Here's one steel product that's in good supply. And one with very little restriction on its use. Ryex expanded metal is on hand at your nearby Ryerson plant in two types—standard and flattened—and in a wide range of sizes and gauges. It may be used in any authorized construction and its applications in the building and industrial fields are endless.

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Hi-Bond was the first and is still the best of the new higher-bonding reinforcing bars. Every Hi-Bond bar meets or exceeds ASTM spec. A 305-49. Hard to get today, but well worth getting tomorrow—Hi-Bond re-bars.

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JOSEPH T. RYERSON & SON, INC. PLANTS AT: NEW YORK • BOSTON • PHILADELPHIA • CINCINNATI • CLEVELAND
DETROIT • PITTSBURGH • BUFFALO • CHICAGO • MILWAUKEE • ST. LOUIS • LOS ANGELES • SAN FRANCISCO

Saved: \$1.44 PER CU. YD. OF CONCRETE



92 Floors and Roof Slabs Concreted in 98 Working Days

● New York City Housing Authority plans and builds with a single objective—full value for every dollar—using reinforced concrete frame construction for utmost stability and fire-safety, maximum speed and economy.

General Contractor planned the 12 buildings in Section 2 of Astoria Houses to go up at the same time, but, due to unforeseen foundation conditions, went ahead with six buildings, using 'INCOR' 24-HOUR CEMENT with one set of forms for each building, then re-used these forms on the other six.

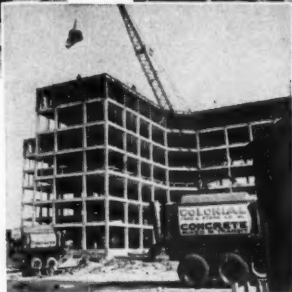
Well-engineered forms, designed in the office and built to closest tolerances, were a key factor in streamlined efficiency—erection speed equal to or exceeding that of any other type of frame erection.

First floor poured June 19, 1950 . . . last roof slab of twelfth building on November 1, 1950 . . . 80 floors and 12 roof slabs, 15,000 cu. yds. of concrete, in 98 working days . . . completed before cold weather!

Dependable 'Incor' early stripping strength kept the job on rapid schedule, saved over 60 days. Result, \$1.44 NET saving per cu. yd., over and above the 73¢ a yard extra cost of 'Incor'. Cold-weather saving was another big plus.

'Incor' economy knows no season. Right around the calendar, 'Incor' promotes smooth-running, time-saving efficiency on which today's close-margin profits depend. Send for illustrated booklet, 'Cutting Concrete Costs'—write Lone Star Cement Corporation, 100 Park Avenue, New York 17.

*Reg. U. S. Pat. Off.



Forms for Astoria Houses, Section 2, designed and engineered in the office and built to closest tolerances, moved up at speed equal to or exceeding that of any other type of construction. Good job planning made fullest use of dependable 'Incor' high early strength. Result, 60 days' earlier completion—NET saving, \$1.44 per cu. yd. concrete.

NEW YORK CITY HOUSING AUTHORITY
ASTORIA HOUSES—SECTION TWO
(12 Buildings), Astoria, Queens, New York City

Architects:
HARRISON, ABRAMOVITZ & WIGGINS, New York
Engineers: SEELYE STEVENSON & VALUE, New York

Ready-Mix 'Incor' Concrete:
COLONIAL SAND & STONE CO., INC., New York

General Contractors:
WILLCOX CONSTRUCTION COMPANY, Inc.
MAURICE L. BEIN, Inc. NATHAN FISH, Inc.
JAMES McHUGH SONS, Inc., Long Island City



LONE STAR CEMENTS COVER
THE ENTIRE CONSTRUCTION FIELD

LONE STAR CEMENT CORPORATION

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THE CONSTRUCTOR, JULY 1951

The CONSTRUCTOR

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COVER

The construction industry's dual role in peace and war is exemplified by a stone mason working on Washington's historic National Cathedral, and members of the 439th Engineer Construction Battalion, A.G.C.-sponsored unit, attaching cables to a girder in a monumental engineering job on the famous Kila Chon bridge in Korea (Wide World photo). See page 45.

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C.I.T. CORPORATION
Industrial Financing
ONE PARK AVENUE, NEW YORK 16, N. Y.

S. D. MADDOCK
PRESIDENT

July, 1951

Dear Mr. Contractor:

There are two things that we can do for you: one, advance funds for the acquisition of new equipment, and the other, make advances against equipment now owned by you. Repayment would be over a period of time adapted to your needs and your revenues.

Either of these things or both together will keep your business liquid. Consequently, your cash funds and short term credit will remain available for the month-to-month needs that you have when doing a substantial amount of work.

Contractors have obtained from us amounts ranging from twenty thousand to three million dollars to purchase needed equipment or for working capital.

If you will write us at any of the offices listed below, we will be glad to discuss a specific program with you.

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660 Market St.
SAN FRANCISCO

416 W. 8th St.
LOS ANGELES

A.G.C. Directory, featured in each July issue of *THE CONSTRUCTOR*, lists new record total of 5,874 memberships held by the leading general contractors who perform more than 80 per cent of all construction in this country by contract. With the addition of Upper Peninsula Michigan Chapter, chapters and branches now total 113 throughout the United States and Alaska. (Story, Page 23; directory starts on Page 197)

Expenditures for new construction put in place during June totaled \$2,700 million compared to \$2,565 million for June 1950, bringing the new construction total for the first six months in 1951 to \$13,898 million compared to \$11,695 for the comparable 1950 period. Defense Department obligations for 11 months ending in May were \$2.3 billion for military construction and facilities expansion. By mid-June, more than \$6 billion in defense plant expansion under rapid tax amortization had been approved. (Pages 24-25)

Controls authority was extended for another month when President Truman signed a bill continuing the Defense Production Act just before it expired on June 30. The temporary measure is an extension of the former Act except for the prohibition on rolling back prices and extending price controls to goods and services not previously under ceiling. (Page 28)

CMP Regulation 6, issued June 21, for the first time brings construction industry directly under Controlled Materials Plan and provides a means for making allotments of controlled materials directly to construction programs and projects. Allotments for construction programs not yet made. Plan permits owners or contractors to apply for allotments of materials, but there is no guarantee they will be made. (Page 28)

Delegation 14, issued June 7, authorizes eight agencies besides NPA to process M-4 applications to commence construction. These agencies, which also have claimant functions for construction programs under Controlled Materials Plan, have power to redelegate and authorize successive redelega-

tions covering construction under their jurisdiction. (Page 32). Delegation 7 was amended July 2 to give 20 more NPA field offices authority to act on M-4 construction applications.

Construction Industry Stabilization Commission, after appointment of members in June, went to work on policies and procedures preparatory to starting to handle wage stabilization and disputes cases early in July under general policies of Wage Stabilization Board. (Page 35)

Secondary boycotts by building trades unions in Colorado, Tennessee, and Connecticut were declared illegal in three separate Supreme Court decisions during June marking this court's first consideration of the secondary boycott provisions of the Taft-Hartley Act. (Page 36)

Construction battalions in Korea, sponsored by A.G.C. in Army affiliation program, praised for their war work. *THE CONSTRUCTOR* presents first published pictures and account of historic mission of 439th Battalion in speedy reconstruction, under trying difficulties, of a vital railroad bridge in Korea (see cover and pages 45-52).

A.G.C. chapters and branches are cooperating with local civil defense authorities in planning effective use of construction industry's experience, equipment and personnel. A.G.C. Civil Defense Committee report expected to be used in preparation of Federal Civil Defense Administration's Administrative Manual for Engineering Services to be published next month. (Page 55)

Gigantic \$157.5 million Arnold Engineering Development Center near Tullahoma, Tennessee, expected to employ 2800 construction workers by August, includes construction of many buildings, utilities, dam, railroad and airfield to support test facilities for development of jet engines and guided missiles. (Page 75)

Iron and steel industry executives, during a recent New York meeting of the American Iron and Steel Institute, declare there is no serious shortage of these metals and claim that supply may soon exceed demand, with 90 per cent of output in third quarter to be for normal uses. Production expected to be upped from current record of 107 million tons to 118 million tons per year within 18 months. (Page 119)

Military public works authorization bill of \$6,561 million, largest since 1943, is now before House Armed Services Committee. Funds to finance part of the construction program were included in Truman's \$60.6 billion request for armed forces expenditures in fiscal 1952. (Page 138)

Money to run government agencies, left without funds by Congress' failure to pass on time a single appropriation bill for fiscal 1952 commencing July 1, was provided in emergency legislation permitting expenditures for another month at previous rates. (For more details on 1952 appropriations, see Page 143)

National joint cooperative committee of The Producers' Council and A.G.C. was established this month to increase cooperation between general contractors and manufacturers of building materials. (Page 155)

Third Annual Southern States Apprenticeship Conference met this month in Memphis under general chairmanship of W. W. MacLaughlin, Jr., secretary-manager of the Memphis, Chapter, A.G.C., to discuss adequate supply of apprentices during the emergency period and thereafter. Fourteen trades were represented at the 10-state meeting. (Page 158)

Federal advance planning loan program has been killed as a result of Congress' failure to appropriate sufficient funds to maintain interest-free, reimbursable advances for planning public works construction throughout the states. About 800 applications pend review before October 13 when the program terminates. (Page 162)

SYMONS FORMS with STEEL RIBS



FOR HIGH WALLS - FAST POURS

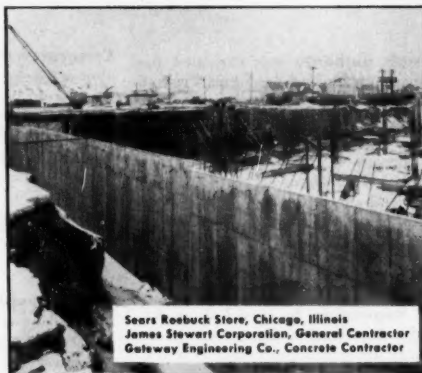
For pouring concrete walls with pressures of 650 to 1500 pounds per square foot, we recommend Symons $\frac{3}{4}$ " Plywood Forms reinforced with steel ribs every 12". These heavy-duty forms allow the use of additional ties where the pressure is greatest.

Strength is combined with speed. Setting-up and stripping are finished in half the time due to the Symons Forming System of securing forms and ties in one operation. The life of the forms is increased many times due to reinforcement of vital parts. The forms are adaptable for all types of jobs. Being modular, the forms may be combined vertically and horizontally for any height.

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Forms may be rented with rentals applying on the selling price.



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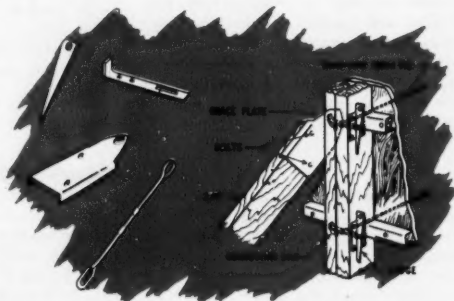
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Name _____

Address _____

City _____ Zone _____ State _____



A Series of Graphs Outlining the Construction Trend

Compiled by The Associated General Contractors of America

TREND OF CONSTRUCTION COSTS

The average of construction costs in the principal construction centers of the United States for June stands at Index Number 379, according to the A.G.C. Index. The cost figure for June 1950 was 349. The 1913 average equals 100.

WAGE AND MATERIAL PRICE TRENDS

The average of wages in the principal construction centers of the United States stands at 506 for June. One year ago the average stood at 471. The average of prices paid by contractors for basic construction materials for June stands at Index

Number 295. The average a year ago stood at 268. The 1913 average, again, equals 100.

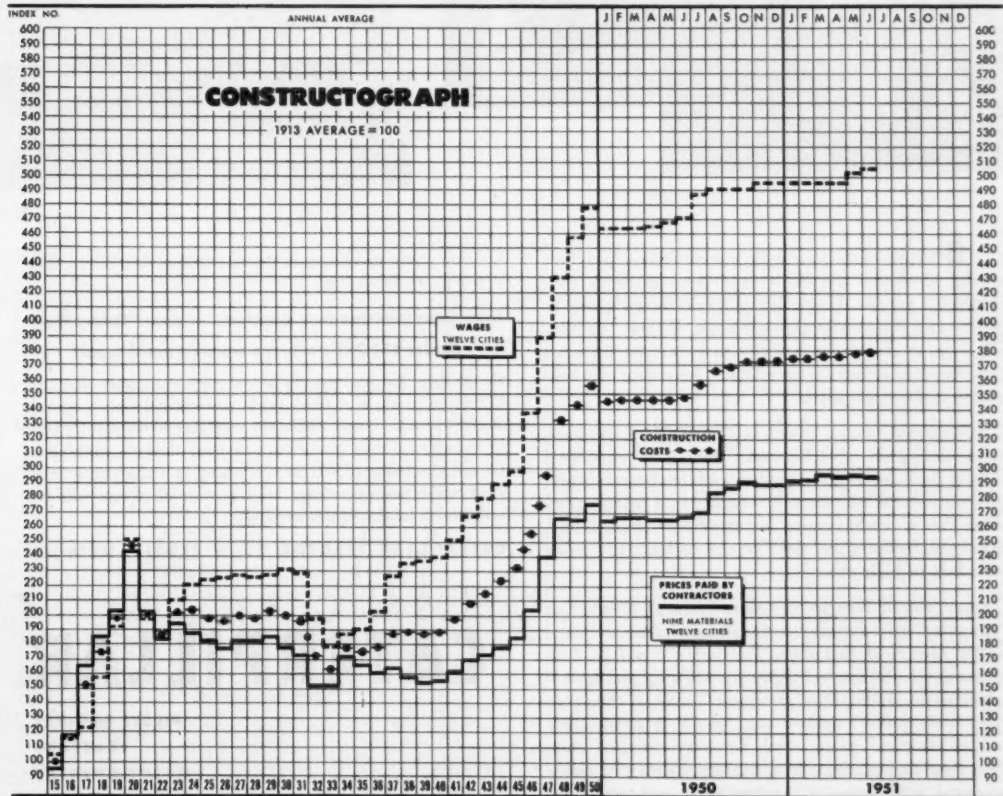
CONTRACT AWARDS IN 37 STATES

The volume of contracts awarded during May (Index Number 516, based on 1936-1938) is an increase of 239 points from April, and an increase of 221 points from May 1950.

REVENUE FREIGHT LOADINGS

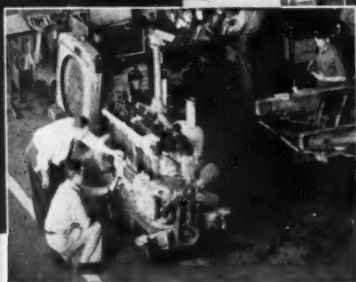
Revenue freight loaded during the first 25 weeks of 1951 totaled 19,095,789 cars. For the same period in 1950, loadings amounted to 17,101,230 cars. This represents an increase of 11.6 per cent.

● Wage, Material Price and Construction Cost Trends



CATERPILLAR
SALES - SERVICE

Your strong right arm... in time of need



BECAUSE of the vast defense mobilization program, material shortages and extra production demands have gripped the nation. They affect particularly the heavy industries and the distributors and users of their products. And huge as America's facilities have become in recent years, they still are not large enough to keep pace with both military and civilian needs.

Nevertheless, as an owner of "Caterpillar" products, you are among the more fortunate. Your "Cat" equipment has been built for long life and to withstand severe working conditions. What's more, it is backed by a dealer organization that is world-famous for experience, accessibility, mechanical facilities and field service to keep you going "come hell or high water."

Since World War II, the already large number of "Caterpillar" sales-and-service establishments has increased greatly. Also since that time, "Caterpillar" and its dealers have developed new techniques for restoring and extending the life of "Caterpillar" products. Today, in their own shops, "Caterpillar" dealers can *rebuild* a great many worn or damaged parts which formerly required completely new replacement. In short, every dealer is richly acquainted with scores of modern ways and means for

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Remember that excessively worn parts can cause damage to mating parts; that track parts, pistons and liners, crankshafts, cylinder heads, radiators and other items usually can be salvaged. Your problems are your dealer's problems. Go see him today. He'll do everything in his power to keep your machines operating. Your combined efforts will be reflected in longer equipment life.

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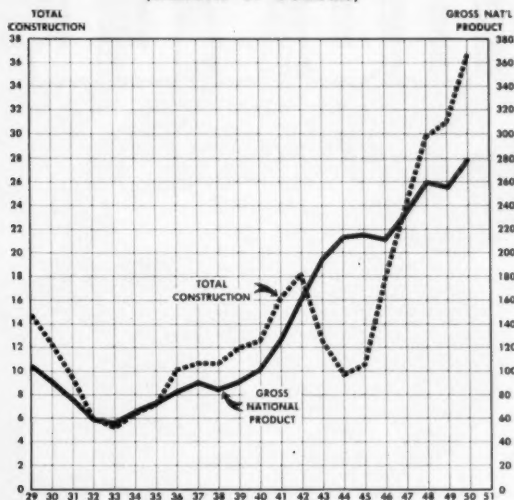
DIESEL ENGINES

TRACTORS

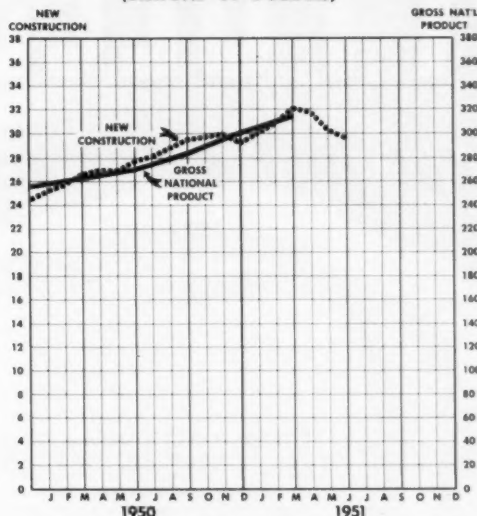
MOTOR GRADERS

EARTHMOVING EQUIPMENT

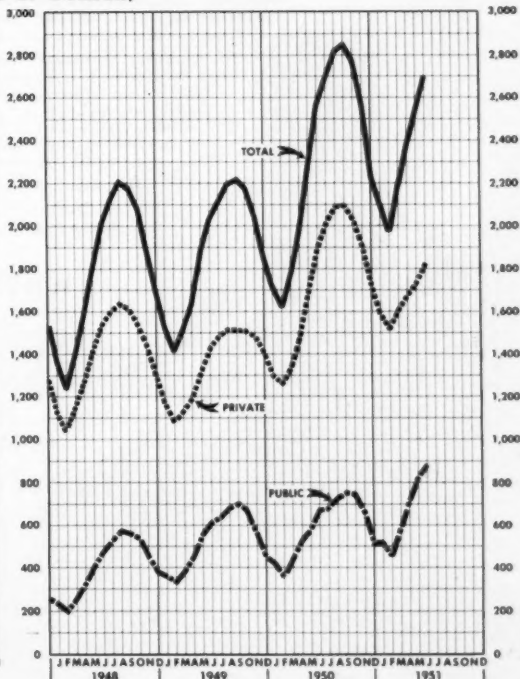
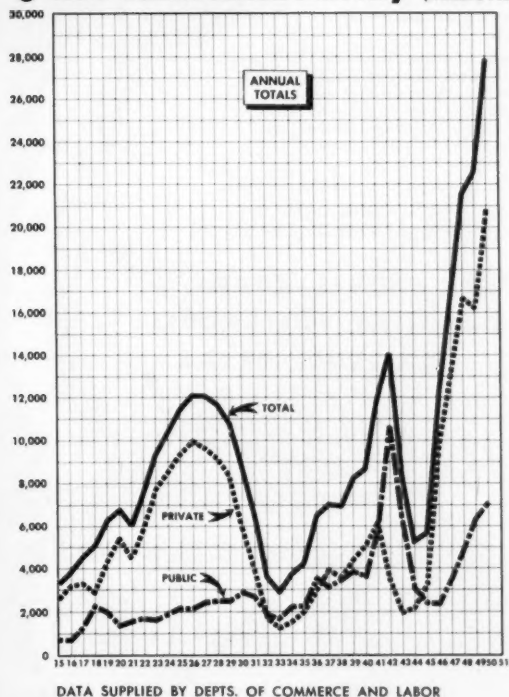
● **TOTAL Construction compared with Gross National Product**
(BILLIONS OF DOLLARS)



● **NEW Construction compared with Gross National Product***
(BILLIONS OF DOLLARS)



● **New Construction Activity** (MILLIONS OF DOLLARS)



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not just an attachment!

PERFORMANCE in the hands of leading sewer and pipeline contractors has established the Northwest Pullshovel as the standard by which other pullshovels and backhoes are measured. General shapes can be copied, but the tested know-how that delivers performance, reduces upkeep and insures output is beyond copying and results from experience only.

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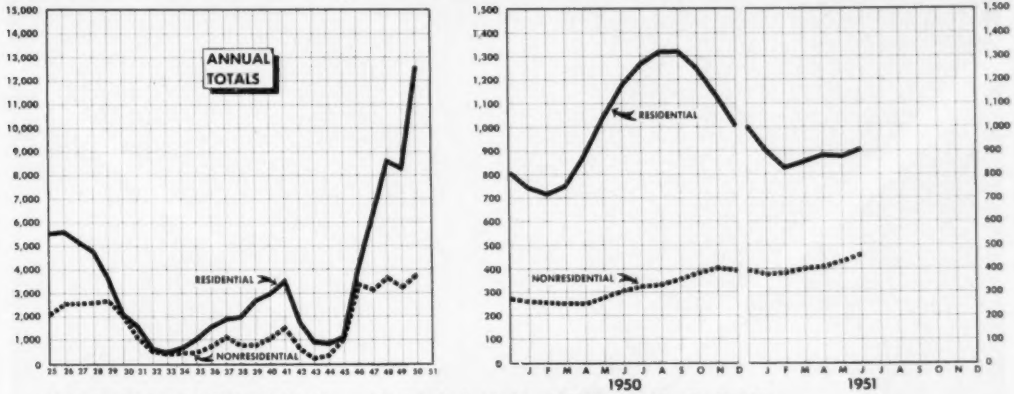
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NORTHWEST

CRAWLER and TRUCK MOUNTED SHOVELS • CRANES • DRAGLINES • PULLSHOVELS

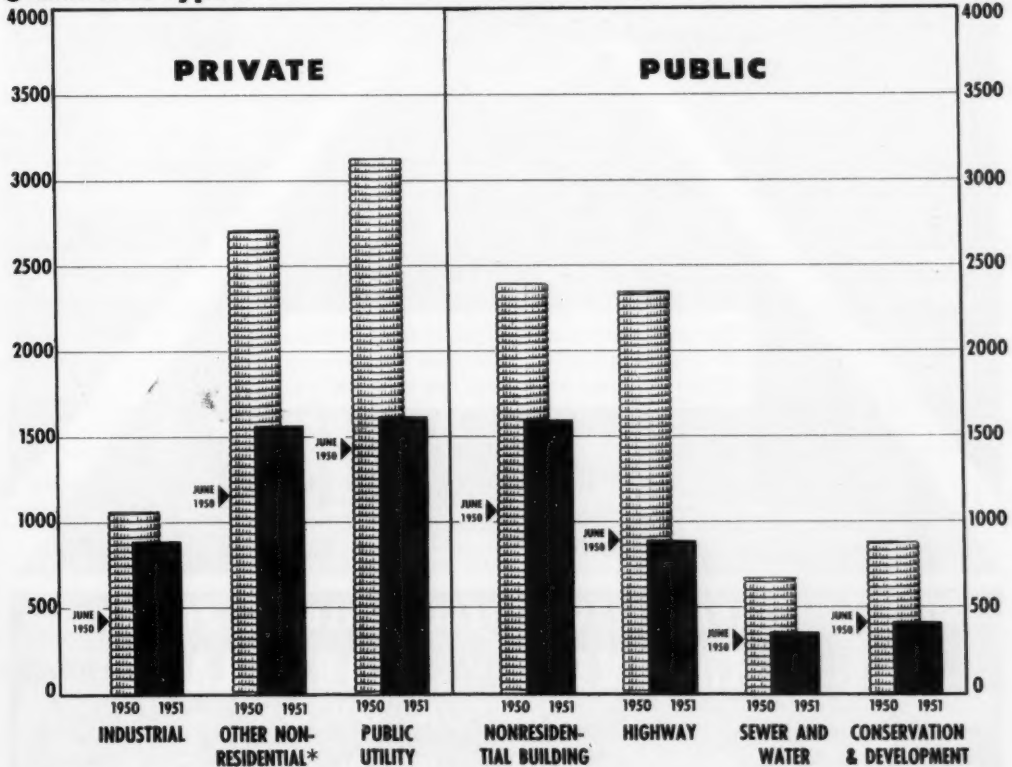
NEW CONSTRUCTION ACTIVITY

● Private Residential and Nonresidential Building* (MILLIONS OF DOLLARS)



* Residential excludes farm; Nonresidential includes industrial, commercial, institutional, and social and recreational building, but excludes public utility building.

● Selected Types: (CUMULATIVE, MILLIONS OF DOLLARS) 1950 and 1951 VOLUME THROUGH JUNE



*Includes commercial, institutional, and social and recreational building

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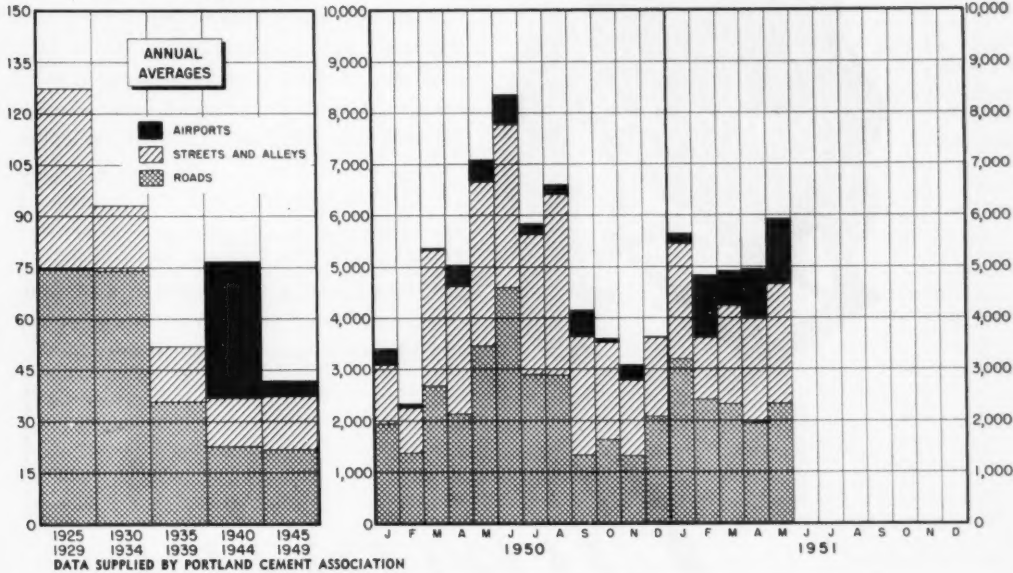
CANTON, OHIO

V BAR JOISTS • LONGSPANS • BOWSTRING TRUSSES • STEEL DECK

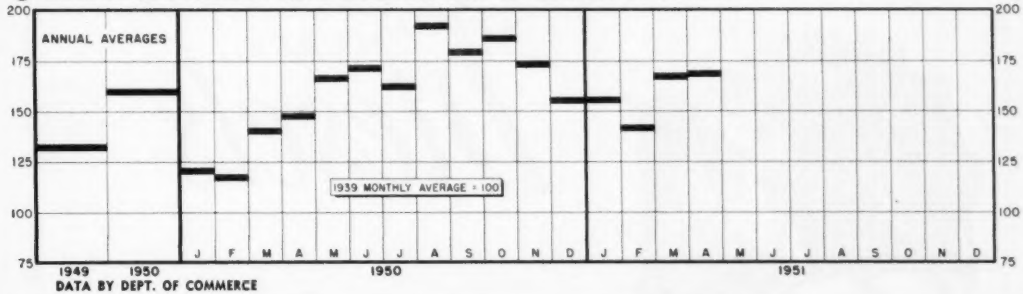
Concrete Surface Pavement Awards

MILLIONS OF SQUARE YARDS

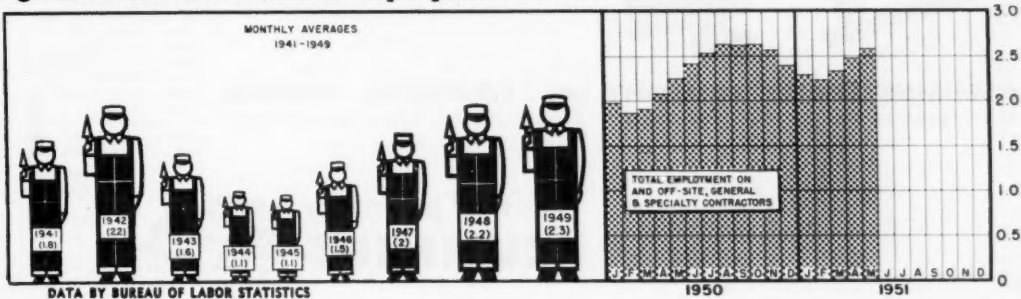
THOUSANDS OF SQUARE YARDS



Materials Index: COMPOSITE PRODUCTION INDEX OF 20 MATERIALS

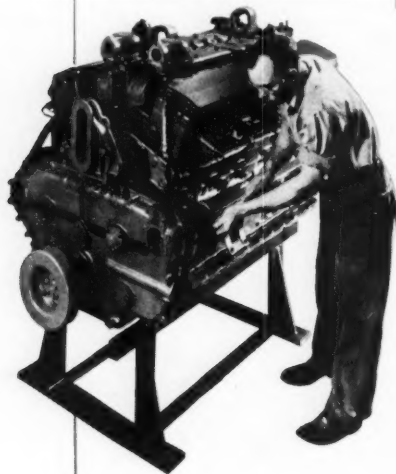


Contract Construction Employment (MILLIONS)



BUILT NOT ONCE BUT

TWICE!

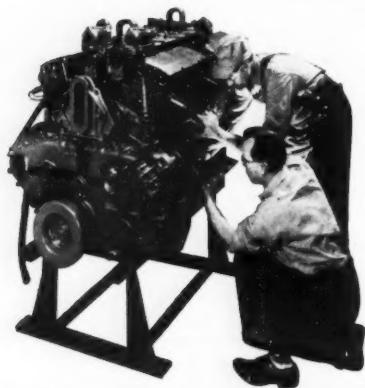


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off-highway trucks • buses
tractors • earthmovers
shovels • cranes
Industrial locomotives
air compressors
logging yarders and loaders
drilling rigs
centrifugal pumps
generator sets and power units
work boats and pleasure craft*

**Diesel power by
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For Moderate Income Families in Large Cities

(Formerly referred to as the "Cost of Living Index," compiled by the Bureau of Labor Statistics)

THIS table indicates the average changes in retail prices of selected goods, rents and services bought by the average family of moderate income from March 15, 1949 to May 15, 1951.

They are presented here for use by employers who may wish to take these cost of living data into consideration when contemplating adjustments of wages based on increased living costs.

The Bureau of Labor Statistics surveys 10 key cities every month and 24 other large cities quarterly. Prices are obtained on food, fuel, apparel, house furnishings and miscellaneous goods and services. Rental information is obtained quarterly only for all cities. The computations are based on the indexes for the years 1935-39, which are taken as the average of 100 points.

	1949			1950			1951		
	MAR. 15	APR. 15	MAY 15	MAR. 15	APR. 15	MAY 15	MAR. 15	APR. 15	MAY 15
Average.....	169.5	169.7	169.2	167.0	167.3	168.6	184.5	184.6	185.4
Birmingham.....	171.8	171.6	171.4	168.4	167.7	169.0	190.6	189.9	190.1
Mobile, Ala.....	171.1			166.2			181.9		
Los Angeles, Calif.....	171.0	171.2	169.6	165.9	166.9	166.7	185.6	185.6	186.3
San Francisco, Calif.....	174.6			172.3			188.7		
Denver, Colo.....		169.9			165.7			187.0	
Washington, D. C.....			165.3			165.2			180.0
Jacksonville, Fla.....	174.3			174.8			190.4		
Atlanta, Ga.....			170.5			169.3			192.7
Savannah, Ga.....		174.9			170.9			195.5	
Chicago, Ill.....	174.5	175.0	174.2	172.9	172.9	175.3	189.1	189.1	189.8
Indianapolis, Ind.....		171.9			170.9			187.7	
New Orleans, La.....			172.5			171.5			188.5
Portland, Maine.....	165.0			163.7			175.7		
Baltimore, Md.....	173.9			170.1			188.6		
Boston, Mass.....	162.5	162.4	162.2	162.0	162.3	163.3	175.8	175.5	176.1
Detroit, Mich.....	170.8	171.1	171.6	168.3	169.5	171.4	187.0	186.7	187.4
Minneapolis, Minn.....	169.3			167.1			183.2		
Kansas City, Mo.....		163.3			161.1			178.5	
St. Louis, Mo.....	169.0						185.2		
Manchester, N. H.....		170.6		167.4	167.1			182.9	
Buffalo, N. Y.....		168.3			166.3			183.3	
New York, N. Y.....	167.4	168.1	166.8	164.0	164.5	165.4	180.4	180.6	181.4
Cincinnati, Ohio.....	170.7	170.7	169.1	167.9	167.3	169.7	184.4	184.6	184.8
Cleveland, Ohio.....			171.5			170.1			188.2
Portland, Ore.....		177.6			174.8			194.1	
Philadelphia, Pa.....	169.0	169.0	169.9	166.0	166.0	167.1	185.6	185.9	186.4
Pittsburgh, Pa.....	172.7	173.0	172.9	169.5	170.1	172.0	186.0	186.7	187.8
Scranton, Pa.....			168.4			167.3			182.4
Memphis, Tenn.....	173.3			169.4			186.5		
Houston, Texas.....	170.2	171.0	170.6	172.9	171.9	172.4	192.4	192.5	192.0
Norfolk, Va.....			170.3			170.9			188.3
Richmond, Va.....		164.2			161.9			181.2	
Seattle, Wash.....			172.5			171.8			191.4
Milwaukee, Wis.....			169.3			170.9			190.9

LIFELINES

THROUGH LOW-COST AGGREGATE

THE vast networks of American railroads and highways are the arteries of the nation, carrying the output of factories, farms, mines and forests, providing the lifeblood for national security and progress.

America on wheels rolls on aggregate . . . hundreds of millions of tons of aggregate that must be produced at *the lowest possible cost per ton* for UNLIMITED CONSTRUCTION of the high speed roadways so urgently needed.

Cedarapids equipment provides American contractors with the means to keep aggregate production costs at lowest levels . . . consistent big volume output, long-life construction, low operating and maintenance costs, and high quality finished products that meet exacting specifications.

Cedarapids equipment brings OPPORTUNITY UNLIMITED to *you* with bidding advantages you can depend on to beat competition. For complete plants or single units . . . for producing either aggregate or black top . . . see your Cedarapids distributor for details.



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THE UNITIZED PLANT
fits all aggregate requirements! The four basic units ... primary crushers, scalping units, secondary crushers and wet or dry screening units ... can be used alone or in any combination to produce anywhere from 25 to 250 tons per hour, and more, of any type of aggregate, from riprap to agstone.



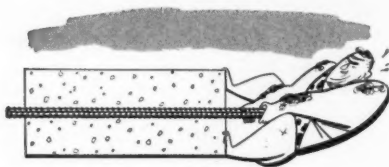
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The most portable of the Iowa line of bituminous mixing plants, the Model "FA" is quality built for accuracy of mix and low cost operation on a big variety of work. There's a size and type of Cedarapids plant for every black top job ... the Model "E" for the biggest to the Patchmaster for the smallest.

Photo by Ewing Bellway

THE IOWA LINE of Material Handling Equipment Includes:

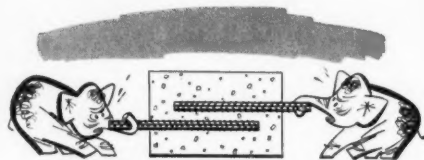
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- FEEDERS • PORTABLE POWER CONVEYORS • PORTABLE AND STATIONARY STONE, GRAVEL AND SAND PLANTS •
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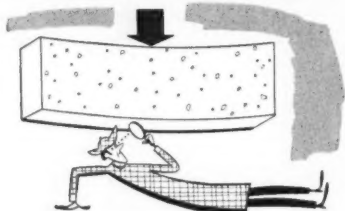
**1 Increased bond stresses and
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See reports on National Bureau of Standards research by Arthur Clark . . . ACI Proceedings, Vol. 43, p. 381; Vol. 44, p. 437; Vol. 46, p. 161; by C. C. Fishburn . . . ACI Proceedings, Vol. 44, p. 289.



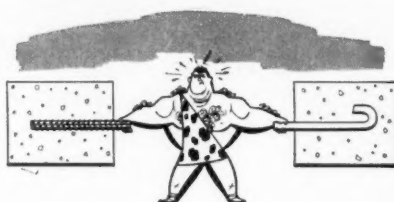
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INLAND STEEL COMPANY 38 S. Dearborn St., Chicago 3, Illinois

Sidelights for Contractors

By John C. Hayes, Legal Adviser

Taxes

Accounting Method.—A district court has agreed with a corporate contractor, which was on the accrual basis of accounting except for lump sum government contracts, that the contractor properly reported its loss from a "unit price contract" extending over several months for the installation of plumbing, heating, water and sewer facilities at a government project, as 65% of the total loss in 1943 and 35% in 1944, rather than 100% in the latter year. The contract was clearly distinguishable from a lump sum contract, the court thought, and thus the taxpayer had been consistent with its general accounting practices.

State Gasoline Taxes.—Under an amendment to section 23 (c) of the Internal Revenue Code, all state gasoline taxes are deductible by the consumer, even though not imposed on him, if the amount of the tax is separately stated and the tax is paid otherwise than in connection with the consumer's trade or business. If paid in connection with the consumer's trade or business, the tax is also deductible but as a business expense.

Family Partnership.—Despite the fact that the books, records, and tax returns indicated a business was a sole proprietorship of the husband, a district court has recognized that the business actually was a true partnership of husband and wife, where both contributed to its capital and credit, were active in its management, and shared in its profits.

Taxable Income.—A circuit court of appeals refused to grant a tax refund to two daughters with respect to income tax they had paid on portions of amounts received as salaries from their father, although the father had been disallowed such portions of the payments as ordinary and necessary business expenses and had subsequently filed a gift tax return with respect thereto. The court stated that while amounts paid as compensation for services may be income in their entirety to the employee, they are not

thereby entirely deductible by the employer.

Surtax on Undistributed Profits.—Two broadcasting stations have been held by a circuit court to be subject to the surtax on improper accumulation of surplus by corporations, over their objection that they needed the funds for improvement of their facilities and to institute television, where the evidence disclosed that neither corporation had committed itself to such expenditures, the records of the boards of directors were silent as to any steps looking to such projects, and large sums had been loaned to stockholders at nominal rates of interest.

Withdrawal from Partnership.—On a lawyer's withdrawal from a law firm and forfeiture of his interest therein, for which he had paid a substantial sum, the Tax Court concluded that the resulting loss to the individual was an ordinary loss deductible in full, rather than a capital loss, since there had been no sale or exchange of his interest in the partnership.

Excess Profits Tax.—Under the World War II Excess Profits Tax Act, a circuit court of appeals has decided sums borrowed by a corporation for the purchase of single-premium life insurance policies on the lives of its two principal stockholder-officers constituted indebtedness incurred for business reasons and should be allowed as borrowed invested capital.

Public Contracts

Assignment of Claims Act.—The amendment to the Assignment of Claims Act of 1940 has been signed by the President. Chiefly, the amendment amplifies the "no set-off" clause permissible in contracts subject to the act to include any liability of the assignor on account of renegotiation, fines, penalties, taxes, or social security contributions, whether arising from or independently of the assigned contract.

Renegotiation.—The Comptroller General has ruled that the Govern-

ment is not barred from recovering an overpayment made to a contractor as a result of an incorrect invoice submitted by the latter, although the amount of the overpayment was taken into consideration in setting the refund made by the contractor under a renegotiation agreement.

Government's Delay.—A prefabricator of dwelling houses and an erecting contractor holding contracts to furnish materials for and to erect dwelling houses for the Government were awarded damages by the Court of Claims for losses suffered due to the Government's delay in providing access roads to the housing project, in grading the site, and in furnishing promptly drawings and specifications for plumbing changes.

Increased Labor Costs.—Where a government building contract was claimed by the contractor to have been negotiated on the basis of a 40-hour work week, the formal contract not having been signed when an executive order was issued requiring a 48-hour week but the contractor being urged to proceed and being told there would be reimbursement, the Court of Claims allowed recovery by the contractor for its net increased labor costs.

Buy American Act.—Qualification by a prospective government contractor of his bid by a statement therein that it may be necessary to use foreign steel in the contract work does not make the bid unresponsive to the invitations as a violation of the Buy American Act, according to an opinion by the Comptroller General, provided the head of the contracting agency determines prior to execution of the contract that sufficient domestic steel is not available.

Performing Surety.—As against the United States, a performing surety, like a paying surety, is in no better position than its principal, the Court of Claims states, and the Government is entitled to set off its contractor's unpaid employment taxes against the performing surety's subrogation claim to retained percentages earned by the contractor.

GENERALS

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Extra Traction and Speed . . . to do More Jobs Anywhere

Faster! Easier! At Lower Cost!



GENERAL D. T. L. For off-the-road jobs where maximum traction is required. Broad, deep, sharp, self-cleaning tread lugs dig deep for positive grip on soft surfaces. No slipping, sliding.

GENERAL H. C. T. For some work off-the-road, most work on. Deep, saw-tooth safety tread and sturdy shoulder cleats develop extra traction. Rolls smoothly, safely, stops fast.

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GENERAL
D.T.L.**

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GENERAL
H.C.T.**



GENERAL H. C. T. Thicker, tougher tread for extra traction through sand, gravel, slush, mud. More original and recap miles.



GENERAL L. C. M. Ideal tire for dump trucks. Broad lugs develop extra traction forward or backward.



GENERAL INDUSTRIAL PNEUMATICS
Wide-Base tires for small equipment. More cushion, more wear.

REQUEST GENERAL TIRES ON YOUR NEW EQUIPMENT

Construction Serves the Nation

THE CONSTRUCTION industry and members of The Associated General Contractors of America are serving the nation in many capacities.

The lower right picture on the cover of this magazine and the story starting on page 45 show how Army engineer construction groups sponsored by A.G.C. chapters have performed outstanding construction feats to support United Nations forces in the Korean campaign.

These men were fitted for their military assignments by their civilian work in the construction industry. Other units are now in training in this country preparing for active duty if necessary.

Navy Seabee units, composed of men also from the construction industry, made possible the Inchon landings earlier in the Korean fighting.

At the same time A.G.C. companies have been working at top speed in the continental United States and at various bases and installations overseas building new facilities essential to the national defense or rehabilitating or enlarging existing facilities.

During the past year a large volume of civilian construction has been executed to complete projects needed for various civilian activities, or for support of the mobilization program. During 1950 new construction valued at more than \$27 billion was put in place, and an amount only slightly smaller is expected to be completed in 1951.

Of direct benefit to the public also is planning which is being done and has been done by the construction industry in cooperation with federal and local governments on how to make most effective use of the manpower, machinery and organizations in the industry for the civil defense.

A highly developed construction capacity is essential to our armed services. A large volume of construction which must be completed at top speed is essential to all national defense activities. Proper functioning of the civil defense program requires active participation of the construction industry. And supplying the physical needs of the civilian economy requires the products of construction.

For the reason that the construction industry is the only one which can serve the nation in these important capacities, organizations such as the A.G.C. have offered their cooperation to government agencies and have made the recommendation that when restrictive actions must be taken in the mobilization program, care should be taken not to hamper unreasonably the operations of the industry.

Approximately ten per cent of the gross product of the nation's total goods and services is supplied by the construction industry. This is an important percentage because generally construction must precede other activities.

Men of the construction industry deserve the thanks of others for their work in building for the growth and development of the nation, in strengthening its defense, and increasing its military power.

The Symbol of Integrity

IN THIS issue of THE CONSTRUCTOR, the largest in the magazine's history, are published the names, addresses and chapter affiliations of all members of The Associated General Contractors of America.

These construction firms, located in all parts of the country, are the nation's leaders in their industry. Before they could become members they had to demonstrate that they had the qualities of skill, integrity and responsibility.

This year there are 5,874 memberships held in the national association and its 113 affiliated local organizations. Last year there were 5,572 memberships and 112 chapters and branches. With temporary exceptions, there has been a steady growth in A.G.C. membership since the association was founded in 1918.

These companies annually perform the major portion of the new construction executed by contract in the continental United States, and overseas for American corporations and the federal government.

Practically every form of our civilized life requires some kind of construction for its growth and development. Because general contractors accept the centralized responsibility for construction of projects, a heavy responsibility falls upon them.

Because of this responsibility, general contractors have maintained the A.G.C. for the past 33 years. Its general purposes have been to maintain the standards of the contracting industry at high levels, to improve the business conditions of the industry, to increase the efficiency of industry operations, and to establish in the public mind that A.G.C. contractors fulfill their obligations in full faith.

The association's aim both nationally and locally, has been consistently to perform work which is of benefit to its members, to the construction industry, and to the public.

The national association represents general contractors on construction problems which are nation-wide in scope. The chapters and branches represent contractors on matters within their respective areas.

Throughout the years the A.G.C. strives toward the attainment of long-range objectives. In periods of war or defense it serves as the medium through which the government and general contractors can cooperate for the construction which is essential. Such work benefits the public.

General contractors and their association perform work which is vital to the welfare of the nation and the industry. Display of the A.G.C. emblem is assurance to the public of the skill, integrity and responsibility of the contractor.

GM DIESEL powers world's most compact 600 cfm Compressor



CONSTRUCTION—"Starts like a charm, even on the coldest morning. No time wasted in getting up to pressure. Runs a heavy pile driver with ease. We can set it out of the way with a crane and move it back to the roadway for towing in no time."



QUARRYING AND MINING—"We couldn't imagine 600 feet coming from such a slick little compressor until we saw the increased drill footage, and the ease with which it took over two FM-2 wagon drills. Good fuel economy, too."



HIGHWAY BUILDING—"Plenty of reserve—full capacity at 6,730 feet altitude. We're operating eight 55-lb. blower drills putting in 20-ft. holes on cliffsides. So easy to maneuver and work with that it's a natural for tough jobs like this."



WINNING acclaim as the world's smallest, lightest, big-capacity portable compressor, the new Ingersoll-Rand Gyro-Flow 600 is powered by a 6-cylinder General Motors Series 71 Diesel engine.

This compact, high-powered portable delivers a full 600 cubic feet of air per minute at a steady 100-lb. pressure, yet it weighs only 9,500 pounds. It is 20 to 40% lighter—and as much as 20% smaller—than other portables of comparable capacity.

Being 2-cycle, GM Diesel engines pack more power in less space. They start quickly on their own fuel, run smoothly and enable equipment to maintain rated performance at high altitudes. They're designed for ease of maintenance—no high-pressure fuel tubing—unit injectors that can be changed in a matter of minutes. And, when needed, low-cost "Factory-Engineered" parts are readily obtainable.

These modern 2-cycle Diesels are bringing new economy and efficiency to more than 500 different kinds of power equipment built by 120 manufacturers. Ask your GM Diesel distributor or write us for full details.

ANSWER



THE CALL

CIVIL DEFENSE

DETROIT DIESEL ENGINE DIVISION

SINGLE ENGINES...Up to 275 H.P. DETROIT 28, MICHIGAN MULTIPLE UNITS...Up to 800 H.P.

GENERAL MOTORS



DIESEL BRAVN WITHOUT THE BULK

» EACH YEAR the July issue of *THE CONSTRUCTOR* publishes the Directory of The Associated General Contractors of America.

In the directory, starting on page 197, are published the names and addresses of all A.G.C. members, both alphabetically and by membership in branches or chapters of the association.

Also published are the names and company affiliations of the officers, directors, members of the Advisory Board, committees, and the national staff, and presidents and managers of the local associations affiliated with the national organization.

This July there are 5,874 memberships held in A.G.C. There are 113 chapters and branches in all parts of the country. This is a gain of 302 members and one chapter since last July. Except for temporary setbacks in the early twenties and thirties there has been a steady increase in the number of A.G.C. members, which has more than doubled since 1939.

The Associated General Contractors of America was founded on November 21, 1918, with 97 general contractors as members. Among the principal purposes of the association, as set forth in the bylaws, are:

"To maintain the standards of the contracting business at the level necessitated by its quasi-professional character, and to establish members in the

Increasing Strength of A. G. C. Reveals High Public Confidence]

- Association Shows Steady Growth in 33 Years
- High Standards Typify Construction Industry
- Organization Is Government-Contractor Link

public mind as contractors who fulfill their obligations in full faith.

"To make membership in the association a reasonable assurance to the public of the skill, integrity and responsibility of A.G.C. members."

The A.G.C. throughout its 33 years has sought to perform work which is of benefit to its members, to the construction industry, and to the public. As it has increased in size, both in number of members and number of chapters which cover one or more states or a metropolitan area, the association's work has also increased in scope and effectiveness.

Government agencies, other groups within the construction industry, and the public have learned that confidence can be placed in actions of the A.G.C. because all of its work in behalf of its members is taken on the basis that it must be in the public interest.

The A.G.C. emblem has come to be

recognized as the symbol identifying general contractors of skill, integrity and responsibility.

The A.G.C. was founded after experiences during World War I demonstrated the need, expressed by President Woodrow Wilson, for a national organization through which the government could make direct contact with the general contracting industry for war construction.

In calling the meeting which led to formation of the A.G.C., Daniel A. Garber, who became the association's first president, wrote, in part, as follows to a number of leading general contractors:

"The contractor is the prime factor in all material progress. Through him all necessary works are built, of public and private interest. He affords a livelihood for millions of men and their families.

"The contractor now is merely an individual with no influence other than his own personality and his commercial weight. Organized he can serve his own legitimate interests, open the gates for great prosperity, benefit the country in normal times, and serve it royally in emergencies like the present."

During World War II, when construction valued at more than \$49 billion was put in place at unprecedented speeds, the A.G.C. was the national organization through which there was direct contact between the government and the contracting industry.

Men from the industry also became members of the armed services and helped to develop a military construction service which was consistently underestimated by the enemies because they had nothing of their own for a basis of comparison.

During the current mobilization program, the A.G.C. once again is serving as the vehicle through which there can be cooperation between the government and the industry for accomplishing the nation's defense construction objectives.

At all times the association's actions are guided by the belief that *America Progresses Through Construction.*

Construction Firms Listed by Type of Work

- Perform More Than 80% of All Contract Volume

» ALL TYPES of construction projects essential to the growth and development of the nation and its communities are executed by members of The Associated General Contractors of America.

In the roster by states, starting on page 235, members list the general types of construction which they perform, such as building, highway and airport, or heavy and railroad construction. Some construction firms confine themselves to one general type of work. Others engage in a wider variety. A compilation of the listings is as follows:

2,478 members, either exclusively or as part of their activities, perform heavy engineering construction including dams, tunnels, bridges, railroads, water mains, subways, foundations, piers, viaducts, drainage, irrigation and sanitation projects, water power development, docks, locks, levees, flood

control and harbor dredging projects, pipelines and transmission lines.

2,486 A.G.C. members, either exclusively or in addition to other work, construct highways, roads, streets, alleys, sidewalks, parkways, airports, athletic fields, highway bridges and sewage and waterworks incidental to street and highway improvement.

3,299 A.G.C. members report that either exclusively or in addition to other work they perform building construction such as industrial plants, office buildings, apartments, hotels, large scale residential projects, warehouses, hospitals, churches, schools, theaters, public buildings, department stores and other commercial projects, as well as additions and repairs to buildings.

It is estimated that A.G.C. members execute more than 80 percent of such construction undertaken by contract.

Defense Plant Expansion Booms Under Impetus of Tax Benefits

- Over \$6 Billion Investment Indicated to Date
- Steel Industry Taking Major Part in Program

» THE SPECTACULAR jump now taking place in the expansion of defense plant facilities under the government's rapid tax amortization allowance program is spearheading a revival of industrial construction that may double the 1950 volume in that category this year and continue for some time.

More than \$6 billion in defense expansion had been approved up to the middle of June by the Defense Production Administration for certificates of necessity conveying the accelerated depreciation privilege. Most of it is slated to begin in the near future, or already is under way. Whether the majority of this construction would have been undertaken at this time without the tax benefits provided in the Internal Revenue Act of 1950 is a matter of conjecture, but the fact remains that scores of firms, large and small, are taking advantage of the provisions.

The total of 1,766 certificates granted by June 12 show a dollar volume of \$6,158,885,156. By June 15, the NPA was forced to announce it would not consider any new applications until the backlog of over 7,000 was acted upon.

The certificates authorize the holders to deduct 40% to 100% of the cost of the facilities from taxable income over the next five years. The normal period of amortization of facilities allowed by the Bureau of Internal Revenue is 20 to 25 years.

Fast Expansion Purpose of Device

The accelerated amortization device was approved by Congress in the hope that industry would expand quickly enough to handle defense production and to provide "protection against undue risk" for those companies responding. In order to overcome natural reluctance of industrialists to build plants which would have no post-emergency adaptability, the government is allowing percentages of from 40 to 100% of the cost of the expansion to be tax-deductible. The percent allowed depends on the value the plant would have for peacetime production.

If one should be usable only for the specific defense work it were built for, DPA would concede that 100% of its cost could be amortized over the five-year term.

Another important benefit of the certificates of necessity and defense loans is that the holder is absolved from the restrictions of the National Production Authority's Regulation M-4, limiting construction. A May 11 amendment to that regulation exempts projects which have certificates from the necessity of securing authorization to commence construction.

An unusual amount of construction has resulted as the certificates have flowed out of Washington. One hundred and nine were issued during the week June 1 to 8, representing an estimated \$207 million in new plant construction and equipment.

Steel Plant Construction Soars

Steel plant expansion, especially, has been stimulated by the policy. At one point, March 17, steel had received certificates for 118 new plants costing \$1.9 billion. That was one-third of the entire amount certified at that time. The \$1.9 billion represents nearly all of the \$2 billion invested by that industry in new plant and equipment since the war. Steel companies expect to repeat that figure in the next two years.

Also indicative of the pace at which steel has expanded is the fact that the industry is now capable of producing as much in one year as the nation consumed during all of World War II. By June 7, steel had operated at above 100% rated capacity for 14 straight weeks. Spokesmen for the industry declare their ambition to boost annual production from 104 million tons to 118 million tons by 1953. In 1939, capacity was 81.8 million tons.

The Fairless Steel Works, now under construction by United States Steel Corporation, is an example of the expansion progressing among the steelmakers. Probably the largest integrated steel plant to be built in its entirety at the outset, the Fairless Works will contain steel processing

facilities from the ore docks to finishing mills. Plans call for completion of the 1.8-million-ton capacity plant by the end of next year.

Congress Investigates Certificates

The administration of the certificate of necessity measure has met with the usual Congressional investigation. A subcommittee of the House Committee on Expenditures in the Executive Departments has returned a scathing report on its examination of the program, the summary of which begins with these words: "The certificate of necessity program is the biggest bonanza that ever came down the Government pike." Although upholding the purposes of the act, the committee claimed to find it grossly mismanaged. It deplored the unusually speedy issuance of the very first certificate and a loan of \$8 million to the Hazelton Steel and Tubing Corporation, "a new company organized by three men with \$600 and an idea for a steel plant." The action on that case, the committee claimed, was taken by certain NPA officials in direct disregard of the opinions of the investigation and advisory safeguards Congress had set up. The loan has since been dropped, as a result of this investigation.

The committee further urged that the purposes of the measure as passed by Congress be more earnestly adhered to. These included (1) giving opportunity to small businesses to formulate expansion plans, (2) making an effort to discourage expansion of facilities in highly concentrated areas subject to enemy attack and (3) examining the ability of the applicant to manage the proposed expanded facilities. The committee felt that the most careful appraisal of each application for either a defense loan or a certificate of necessity was advisable as the distribution of them would determine the economic structure of the nation for years to come. The committee felt that the speed at which certificates were being issued did not indicate contemplative decisions on who should expand and who should not.

Criticism of the fast write-offs has come from labor groups, also. James Carey, secretary-treasurer of the CIO, suggested to the Senate Banking Committee that, if private companies won't expand without such "extravagant" encouragement, the government itself should build the needed facilities. Opinion on the other side is that there is always waste involved in that procedure and free enterprise is jeopard-

ized by government ownership of business.

Place in Pricing Unsettled

Another deep-seated conflict has developed even more since the committee's report. That is the question of whether the increased depreciation allowance incorporated in the certificate should also be allowed as an item of cost in pricing goods sold to the government. The Renegotiation Act of 1943 specifically provides that all deductions allowable for tax purposes should be allowed in renegotiation. The Department of Defense champions that provision. The Defense Production Authority, however, takes the diametrically opposed position that the tax benefits of the certificate constitute incentive enough to stimulate expansion. Final resolution of this argument is expected to fall to Charles E. Wilson, director of the Office of Defense Mobilization.

Aside from such obstacles, the certificates of necessity program seems to be proving itself an effective impetus to defense plant expansion. The National Industrial Conference Board reported recently that business is planning to spend \$24 billion for new plant and equipment before the year's end. Inasmuch as quick amortization and defense loans have contributed to a speedy extension of the nation's production to defense needs, the supporters of these devices must be satisfied. It is now the hope of many, in and outside of the government, to see productive capacity so high within two years that both military and civilian needs can be met and the whole controls program shelved.

Steel Consumption Estimated

National Production Authority has estimated that the 20.8 million product tons of steel to be produced in the third quarter of 1951 will be consumed as follows:

Direct military (Department of Defense), 1,760,000 tons.

Defense-supporting (all allocations except direct defense, including atomic energy, industrial machinery, freight cars, electric power, school, hospital, highway and other rated construction), 15,660,000 tons.

"Free area" steel, 3,380,000 tons.

NPA stated that there are acute shortages of many alloy steels, and plates and structural steel. (Industry estimates, page 119.)

New June Construction Tops '50 Figure

• 1951 Dollar Volume to Approach 1950 Record Figure

» EXPENDITURES for new construction put in place during June totaled \$2,700 million, compared to \$2,565 million during June 1950, the Commerce and Labor Departments announced.

In the first six months of 1951, expenditures for new construction put in place were \$13,898 million, compared to \$11,965 million for 1950.

The total volume of private construction declined slightly in June this year compared to last June, from \$1,892 million last year to \$1,821 million this year. The six-month total for 1951 was greater, being \$9,928 million compared to \$8,941 million last year.

The volume of public construction during 1951 was greater both for June and the first half. June 1951 was \$879 million and the six months were \$3,970 million compared to \$673 million last June and \$3,024 million for the first half of 1950.

The largest decline in volume for June and for the first six months was in private residential construction. The June and first six months totals this year were \$909 million and \$5,248 million, compared to \$1,178 million and \$5,306 million last year.

The greatest private increase was shown in industrial construction. This June was \$179 million compared to \$78 million last June. For the first six months this year the total was \$895 million, or more than double the \$429 million last year.

Commercial construction also shows an increase this year with \$130 million in June compared to \$110 million last year; and \$756 million for six months 1951 compared to \$512 million 1950.

Totals for non-residential private building this year are \$463 million in June and \$2,464 million for six months; compared to \$305 million and \$1,586 million last year.

Private public utility new construction expenditures also increased to \$318 million in June compared to \$278 last June; and \$1,620 million for six months compared to \$1,429 million.

All categories of public construction showed increases in June and for the first six months compared to similar periods last year. In June 1951, highway expenditures were \$250 million compared to \$266 million last year. Six-month totals for both years were the same at \$895 million.

The most spectacular increase was for military construction which was \$85 million this June compared to \$9 million last June; and \$321 million for the first six months this year compared to \$52 million last year.

Public non-residential building was \$313 million in June compared to \$201 million the previous June; and \$1,600 million for six months compared to \$1,066 million last year.

Of this, public industrial increased to \$83 million this June compared to \$17 million a year ago; and to \$349 million for half the year compared to \$73 million. Educational building was \$130 million this June compared to \$95 million last year; and for six months was \$729 million compared to \$516 million.

Conservation construction at \$85 million was lower this June than last year when it was \$87 million. For six months it was \$411 million this year and \$404 million last year.

Total expenditures for new construction last year were estimated at \$27.7 billion. Estimates for this year's total volume are close to \$27 billion.

Wilson Predicts '52 Volume

New construction volume in 1952 will be about 80 per cent of 1950, predicted Charles E. Wilson, director of defense mobilization, in a recent letter to the U. S. Chamber of Commerce.

Mr. Wilson said, "that after allowing for the increase in military and defense construction, and for the volume of essential civilian construction, the total volume in all categories in 1952 may approximate in physical terms about 80 per cent of the volume of construction performed in 1950. In some categories, of course, as utilities, the volume may not be far from what it was in 1950. In others, such as public industrial and military, it will be far above what it was in 1950, and in still others such as housing, it should be below 1950 but not below 1951 levels."

For the reduction of critical construction materials used in each unit of construction, there should be a corresponding increase in the volume of construction, he said. Economy in materials for private construction is industry's responsibility, he concluded.



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» **CONTRACT** renegotiation is the best method yet devised for removing excessive profits from war work, the War Contracts Price Adjustment Board stated in its final report submitted to the President and Congress in June.

The board made the points that contract renegotiation did remove excessive profits from World War II, and protected business against the stigma of profiteering from the war.

Significant quotations from the report are:

"The idea of controlling the profits of war production is an old one. It was especially persistent during the troubled peace between the world wars, when no less than 170 bills and resolutions dealing with this subject were introduced in the Congress.

"The drive after World War I to scale down profits had a moral tone—they were called unconscionable profits—and resulted in a serious morale issue. Our fighting men were popularly thought of as the only ones who had not gotten rich as a result of the war.

"Renegotiation settled this basic problem and produced an important side effect: the cry of profiteering which echoed out of World War I into the peace that followed has been hardly audible in World War II. Businessmen were protected against the stigma of profiteering; war contracting became 'respectable'; and the nation got down to the job of mobilizing its forces into the superlative effort which won the war.

Over \$11 Billion Reduction

"Renegotiation has, to the extent allowed by the statute, removed the excessive profits from World War II. For this purpose it is the best method which has thus far been designed. Table II (which did not break down renegotiation by types of procurement) discloses that determinations of excessive profits in statutory renegotiation aggregate for all years something over \$11 billion, representing a review of over 118,000 contractor-years, at an administrative cost of some \$41 million.

"This is a substantial reduction in the cost of the war. Renegotiation was not, however, a revenue measure. Although the amount recaptured was great, that was a relatively insignificant result. The stated figure affords no real measure of renegotiation's effect and effectiveness.

Report Praises Results of Renegotiation

• Protected Business from Profiteering Stigma, Board Says

"In many instances voluntary refunds of profits recognized by contractors to be excessive were made prior to the institution of any renegotiation proceedings. Such refunds were treated as retroactive price reductions and were computed on the basis of reduced prices on specific contracts. The aggregate of such voluntary refunds and the savings resulting from reduced prices on reorders or continuing contracts are not even approximately measurable.

"While price reductions were often the result of several influences, the impact of statutory renegotiation on closer pricing was tremendous. The statutory factors which were spelled out by the Congress in the Renegotiation Act itself put contractors on notice that efficiency of operation and reasonableness of cost were to be recognized and rewarded in renegotiation.

"Throughout the course of the war it was more and more emphasized that the risk assumed by a contractor in adopting a policy of pricing closely, either initially or by reductions in his prices as cost experience warranted, was to affect substantially the amount of profits to be retained.

Federal Policy

"It is our opinion that the greatest contribution of wartime renegotiation lay in the fact that its existence con-

tributed substantially to a desire on the part of contractors to price more closely than they would otherwise have done, and hence materially aided in putting procurement on a relatively solid footing in the latter years of the war.

"In all sincerity we believe that statutory renegotiation has proved itself an essential instrument of federal fiscal policy in periods of intense economic dislocation incident to the transition of the nation from a peacetime to a wartime footing."

The Board

The War Contracts Price Adjustment Board was established by Congress in February 1944 by the Renegotiation Act of 1943. Previously, renegotiation functions had been exercised by government procurement agencies under section 403 of the Sixth Supplemental National Defense Appropriation Act of 1942. The board reported for all renegotiation activities.

This board sponsored the Renegotiation Act of 1951, which terminated the old board and provided for establishment of a new independent Renegotiation Board to renegotiate contracts in the current mobilization program. The act was signed March 23, but the new board has not yet been established.

AEC Construction Division

The Atomic Energy Commission has established a Division of Construction and Supply under the direction of Edward J. Bloch, former deputy director of the Division of Production.

The new office will provide staff supervision of AEC construction. It will administer priorities, allocations and Controlled Materials Plan for that agency.

Bloch, a native of St. Louis, was with the U. S. Engineers at the Manhattan Engineer District before joining AEC in 1947. He will be aided in administration of the division by Frederick H. Warren, deputy director, and John R. Brindel, assistant.

Succeeding Bloch in the Production Division is Neil J. Carothers, Jr., former housing project engineer for H. B. Deal & Co., A.G.C., St. Louis.

Two of the division's branches will be Construction Engineering under William K. Maher and the Supply Branch under George C. Taylor.

Corey Honored By A.S.A.

Lester S. Corey, president, Utah Construction Co., A.G.C., San Francisco, was one of two top executives in the construction industry who were honored recently by the American Standards Association.

Corey received a certificate of service in recognition of his work in the development of American standards, along with Lloyd H. Yeager, general manager of the Gypsum Association, Chicago. Thomas D. Jolly, president of A.S.A., awarded the certificates during a board of directors meeting in New York City.

Agencies Speed Up Controls as Congress Ponders Extension

• Stop-Gap Act Leaves Administration in Dither

» FEDERAL agencies sprinted last month to put into effect many of the mobilization controls while Congress held off until the last possible moment action on extending the Defense Production Act for another month.

The act was due to expire at midnight June 30. The Senate by working until 4 a.m. June 29 passed a bill extending parts of the act for either one year or eight months. Later that day the House passed a bill extending the act for the month of July.

Still later in the day the Senate agreed to the House measure, and the temporary measure prohibiting price rollbacks during July went to the White House for signature.

Congress apparently wanted more time to determine the type of control legislation it should extend pending outcome of military negotiations for a truce in the Korean war.

The President has asked for more stringent laws, particularly for farm prices, rent control, and commodity

speculation. Congress, generally, had demonstrated a "show me" attitude on the need for more stringent controls, and the feeling was frequently expressed that the law was adequate but its administration was inadequate.

Congressional action left the government agencies in the position of not knowing how long there would be legislative authority for continuing their actions or the controls under their jurisdiction. Most felt they had no alternative but to continue work on the assumption that the legislation would be continued.

Principal developments directly affecting contractors were:

- Controlled Materials Plan Regulation 6 was issued June 21, which for the first time provides a method for allotting critical materials directly to certain construction programs.

- Delegation 14 was issued June 7 by the National Production Authority which decentralized the administration of applications for permission to

commence construction under NPA Order M-4 and granted authority to approve applications to eight other government agencies and their constituents.

- Construction for the petroleum and gas industries was removed from NPA Order M-4 and placed under Order M-46B administered by the Petroleum Administration for Defense.

- Members of the Construction Industry Stabilization Commission, to operate in the construction industry under policies of the Wage Stabilization Board, were appointed and the commission went to work on organization, policies and procedures so that it could be in operation early in July.

- A Salary Stabilization Board was appointed to administer stabilization policies for salaried workers.

- The Office of Price Stabilization was at work on a regulation to apply to operations of construction contractors which was designed to end the confusion now existing.

- Possible consolidation of government agencies was forecast when Manly Fleischmann, Administrator of the National Production Authority, the operating agency, was also appointed Administrator of the Defense Production Administration, the policy making agency.

Controlled Materials Plan for Construction

• Steps Promised for Prompt Implementation of CMP Reg. 6

» CONSTRUCTION was brought under the Controlled Materials Plan when the National Production Authority issued CMP Regulation 6.

For the first time, this regulation provides a method for allotting critical materials directly to certain construction programs and projects.

During World War II, on non-military projects, the construction industry had to secure its materials under CMP either on the open market after allotments had been filled, or from allotments to end products. For example, steel for construction of an airplane factory had to come from the airplane allotment.

The Associated General Contractors of America had recommended that if allotments under CMP were to be made to other industries during the mobilization program they also should be allotted to essential construction programs.

CMP became effective July 1. Its purpose is to channel steel, copper

and aluminum and products made of them into essential defense and defense-supporting production and construction. Allotments are made by quarters.

NPA has announced that it does not expect CMP to become wholly effective during the first quarter of its operation. This is particularly true for construction. The order, application form, basic instruction sheet and two supplementals, and other information were not issued until June 21. Time was required for distribution of the documents throughout the country, and for government agencies and the industry to gain a clear understanding of the plan and of its operation for the first time in construction.

Only a few construction projects were expected to get allotments in time for production of materials in September. Generally, manufacturers are not required to accept orders calling for delivery in less than 45 days

after receipt of the order. This meant that for construction there was little time available for submitting applications for approval and placing orders within the "lead" time.

A.G.C. representatives conferred late in June with Walter C. Skuce, NPA Assistant Administrator in Charge of Production Controls and the Controlled Materials Plan. He stated that all possible steps would be taken to make the plan operative in construction promptly.

Who Can File

Section 5(d) of CMP Reg. 6 provides that any prime contractor (defined as owner or person designated to act for him) who desires to undertake construction, or already has commenced construction, may submit an application on Form CMP-4C to the appropriate claimant agency for an authorized construction schedule and related allotment.

CMP Reg. 6 differs from regulations covering manufacturing operations in that it is permissive. The owner or contractor do not have to file. Information on where to file applications is in the table on page 31.

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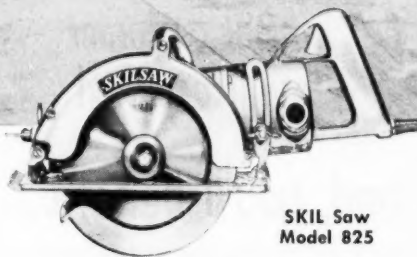
says J. T. WYATT, superintendent of the HARMON CONSTRUCTION COMPANY
project in Memphis, Tennessee

SKIL Saws are job-proved on every building project of the Harmon Construction Company of Oklahoma City, Oklahoma. That means jobs in seven mid-western states . . . tough jobs, big jobs, jobs like the construction of Le Bonheur Children's Hospital in Memphis, Tennessee.

Mr. Wyatt, superintendent of the Memphis project, points out three reasons why SKIL Tools are used and preferred. "No better or tougher saw is made for construction work," he says. "My men like to use SKIL Saws. They're dependable, safe and long-lasting. In every one of the seven states in which we work, parts and service are immediately available."

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Lias Tullos, Harmon Construction Company Carpenter, proves that SKIL Saw Model 825 is built to withstand hard, use on large construction projects.



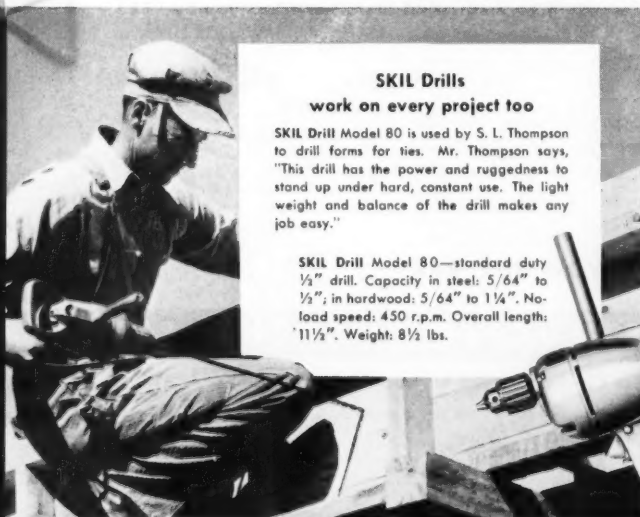
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Essentially, the regulation means that an application can be made for any project which has been or can be commenced legally under Order M-4 or other NPA regulation. There is no guarantee, however, that an allotment actually will be made.

Construction Allotments

Exact information was not available by July 1 on what construction programs and specific projects will receive materials allotments.

The Requirements Committee, Defense Production Administration, makes the decision on allotments which are to be made to claimant agencies for the production and construction programs under their jurisdiction.

After allotments have been made to claimant agencies, they in turn can make allotments to specific projects. The basic problem facing the committee is that there are not enough materials to fulfill all the requests of the claimant agencies.

The committee is headed by Charles E. Wampler, director of the DPA Office of Program and Requirements. Melvin L. Anshen, assistant director of the office, is vice chairman.

Allotments announced by the end of June were for hospital, school and electric power construction programs. Amounts for delivery during the third quarter for hospital and health facility construction were: carbon steel, 75,000 tons; stainless steel, 950,000 pounds; copper and copper base alloy, 4.6 million pounds; aluminum, 550,000 pounds.

For school and library construction, third quarter allotments were: carbon steel, 100,000 tons; alloy steel, 325 tons; stainless steel, 80,000 pounds; and copper and copper base alloys, 600,000 pounds.

Third quarter allotments for maintenance and expansion of public and private electric power facilities, under the Defense Electric Power Administration, were: steel products, 270,000 tons; copper and copper base alloys, 75 million pounds; and aluminum, 25 million pounds.

The Bureau of Public Roads is understood to have an allotment of 300,000 tons of steel from third quarter production.

DO Conversion to Allotments

CMP regulations provide that orders bearing CMP allotment symbols are to take precedence over DO orders.

NPA on June 25 issued Direction 1 to NPA Reg. 2 which provided for

Where to File Applications

This table shows where to file applications for authorization to commence construction or to apply for allotment of controlled materials under NPA regulations M-4, M-46B, M-50 or CMP Reg. 6.

Category of construction	Where to File
School and library construction; hospital and health facility construction other than the Veterans' Administration and military hospitals; other health and sanitation programs.	Schools and libraries: Office of education Federal Security Agency, Washington 25, D. C. Ref: CMP-4C. Hospitals and health projects: Public Health Service, Federal Security Agency, Washington 25, D. C. Ref: CMP-4C.
The hospital program of the Veterans' Administration.	Assistant Administrator for Construction, Supply and Real Estate, Veterans' Administration, Washington 25, D. C. Ref: CMP-4C.
Housing construction, alteration, and repair, except housing and community facilities on Federally owned property under the control of the Atomic Energy Commission, and except military housing under Public Law 211.	Public housing: Public Housing Administration Field Offices. Ref: CMP-4C. Private housing: Federal Housing Administration Field Offices. Ref: CMP-4C.
Farm construction; food production and processing facilities; and wholesale food distribution facilities.	Production and Marketing Administration, State Offices. Ref: CMP-4C.
Facilities for departmental programs of the Department of the Interior; facilities for the production, preparation, and processing of solid fuels.	Defense Solid Fuels Administration, Department of the Interior, Washington 25, D. C. Ref: CMP-4C.
Facilities for the production and processing of the metals and minerals (except solid fuel, oil, and gas).	Defense Minerals Administration, Department of the Interior, Washington 25, D. C. Ref: CMP-4C.
Facilities for the production and processing of fishery products.	Defense Fisheries Administration, Department of the Interior, Washington 25, D. C. Ref: CMP-4C.
Facilities for the generation, transmission, and distribution of electric power.	Defense Electric Power Administration, Department of the Interior, Washington 25, D. C. Ref: DEPA-4. (Under Order M-50)
Facilities for the production, processing, refining, and distribution of petroleum and gas.	Defense Petroleum Administration, Department of the Interior, Washington 25, D. C. Ref: PAD-26. (Under Order M-46B)
Bureau of Public Roads programs for highway construction and maintenance of all rural and urban highways, streets, highway equipment repair shops, bridges, tunnels, toll road facilities, and appurtenant installations, regardless of financing.	Bureau of Public Roads, district engineer, Field Offices (through State Highway Department). Ref: CMP-4C.
Air Navigation facilities, civil airports.....	Civil Aeronautics Administration, Attention: W-30, Washington 25, D. C.
Shipyards	Department of Commerce, Washington 25, D. C. Ref: CMP-4C.
Facilities for domestic transportation; storage, and port facilities.	Defense Transport Administration, Washington 25, D. C. Ref: CMP-4C.
Construction by or for the account of the Department of Defense and all military housing under Public Law 211: Navy construction. Air Force construction: (a) For projects of industrial nature financed by the Air Force. (b) Military command construction. Army construction.	Do not file CMP-4C unless specifically requested.
Construction for the account of the Atomic Energy Commission.	Do not file CMP-4C unless specifically requested.
Other construction covered by M-4 not listed above.	Department of Commerce Field Offices. Ref: CMP-4C.

the automatic conversion of outstanding DO rated orders for non-controlled materials issued by the Department of Defense, Atomic Energy Commission or Coast Guard to a corresponding allotment number assigned under CMP regulations.

Most contract awarding agencies sent their field offices information on the steps to be taken for converting outstanding DO ratings for controlled materials to allotment numbers. General contractors should contact their awarding agency for instructions.

General contractors or owners expecting to seek allotments of controlled materials were urged by NPA officials to file their CMP-4C applications as soon as possible so that more accurate estimates could be made of future materials requirements.

The price muddle for operations of general contractors continued at the end of June. Conflicting interpretations were being given by the Office of Price Stabilization and its field offices on applicability to contractors of Ceiling Price Regulation 31.

OPS officials said they were working on a "realistic" price regulation for construction operations but had not progressed to the point of discussing it with the industry.

Oil and Gas Construction Now Under M-46B

• Pipeline Construction To Be Short of High Priority Demand

» CONSTRUCTION by the oil and gas industries to expand their production for defense programs is now under the control of the Petroleum Administration for Defense.

Order M-46B removes the petroleum and gas industries from control under M-4 and gives them a separate order governing their construction of additional facilities for expanding production. Basic principles of M-4 are retained in the new order, but limitations on the basis of tonnage and project costs are modified.

Use of materials for construction without prior authorization is limited to projects requiring controlled materials costing less than \$5,000, or commenced before May 3, 1951, and authorized under M-4. The construction of service stations is still under M-4 control.

Applications for authorization are made on Form PAD-26. Any priorities assistance needed to get materials for the authorized projects is applied for on the same form, but where authorizations for construction are made under M-46B, priorities assistance is provided under M-46; appropriate

references to these orders must be made along with the applications.

Assistance in getting priorities for casing and tubing is applied for on forms PAD-15 or 17 for delivery during the fourth quarter, along with an inventory and program report submitted on PAD-16.

Applications for priorities assistance should be filed as far in advance of the need of the materials as possible. Where materials are already on hand, construction authorizations will be processed immediately, PAD officials have promised.

Construction controls are expected to hold pipeline construction for the natural gas industry in the fourth quarter to about 60 per cent of the need for essential projects and construction for the oil industry to about 42 per cent of demand for high priority projects.

According to a PAD survey reported last month, natural gas and fuel oil requirements of steel mills will not be met even though all construction operations to provide them these fuels are being expanded as far as steel supplies will permit.

Eight Agencies to Handle M-4 Applications

» AUTHORITY to act upon applications to commence construction of projects in certain categories under their jurisdictions was delegated to eight government agencies by the National Production Authority on June 7.

Subsequently these agencies were granted authority to receive applications for allotments of materials under the Controlled Materials Plan.

When CMP went into effect July 1, Form CMP-4C became the application form to be used for the purpose of applying for authority to commence construction under NPA Order M-4, and applying for an allotment of materials under CMP Reg. 6.

The action granting other government agencies the authority to act upon applications under Section 6 of Order M-4 was taken in Delegation 14. The agencies were given the power to redelegate and authorize successive redelegations with respect to the types of construction over which they were given jurisdiction.

The agencies to which such authority was delegated were those which

became claimant agencies for construction programs under CMP.

This action of granting additional agencies the authority to act upon applications to authorize the commencement of construction was taken in a move to decentralize such authority which previously had been confined to NPA.

The types of construction for which the various agencies may approve the commencement of projects, and the locations where applications are to be filed are contained in the table on page 31.

The authority was delegated with respect to projects on List C of Order M-4. Projects on List A continue to be processed by NPA Washington office. NPA field offices are authorized to process List B projects using up to 50 tons of steel or costing less than \$1 million.

Authorization to commence construction under Order M-4 is not required for projects of the Defense Department, Atomic Energy Commission or Coast Guard.

Controls Checklist

A monthly checklist of governmental regulations and developments.

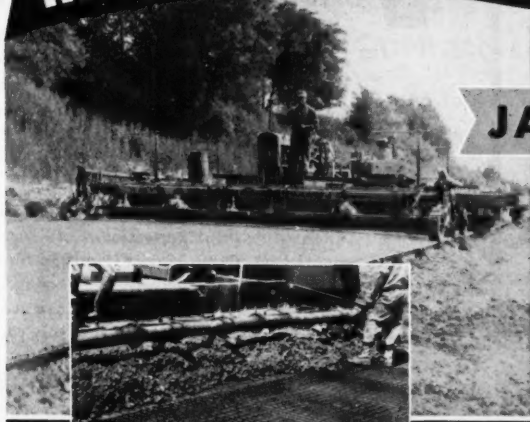
National Production Authority Materials Orders:

M-65, obsolete printing plates; M-66, graphite and carbon electrodes; M-67, aluminum foil; M-68, automobile production; M-69, sulfur; M-70, ship operators and suppliers; M-71, technical and scientific laboratories.

Amendments are: M-47A, controlled materials for consumer durable goods; M-46B, separate gas and oil industry construction from M-4; Delegation 13, authorizes PAD rating assignments; Delegation 14, gives NPA and eight other agencies authority to receive and act upon applications for commencing construction under M-4. Construction developments are reported fully in this department.

The Defense Production Administration, planned for extinction earlier this month, will apparently continue with NPA Administrator Fleischmann heading both agencies. Senate approval of his appointment expected early this month.

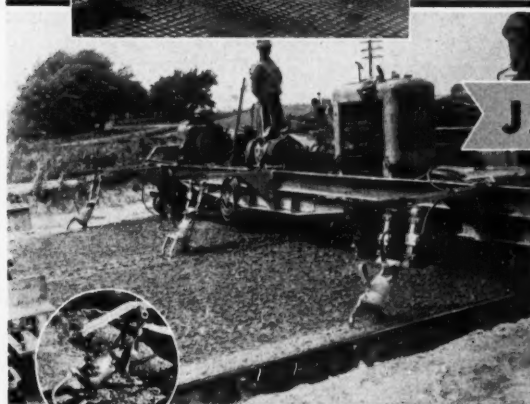
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» THE Construction Industry Stabilization Commission is now in operation administering for the national Wage Stabilization Board its wage stabilization and disputes functions in the construction industry.

The new commission was established on June 1. Members were announced by WSB on June 13. They were sworn in June 19, and immediately went to work to develop policies and procedures for handling the cases which will come before the commission.

Negotiations leading to establishment of this commission familiar with the construction industry had been carried on for several months with various government agencies by The Associated General Contractors of America, national associations of specialty and subcontractors, and the Building and Construction Trades Department of the American Federation of Labor.

The board fulfills a function similar to that of the Wage Adjustment Board which represented the National War Labor Board in the construction industry during World War II.

The new commission will conform to the "regulations, policies, orders, and decisions" of the Wage Stabilization Board in stabilizing wage rates in the construction industry.

Its first task is to develop the policies and procedures under which it will operate. Announcement of these is expected early in July.

CISC to Handle Cases

The Wage Stabilization Board on June 20, upon recommendation of the Construction Industry Stabilization

Construction Industry's Wage Commission Swings Into Action

- Board Formed After Management and AFL Requests
- Required by Bargaining, Operational Peculiarities

Commission, announced that effective immediately the wage and hours offices were to discontinue the handling of cases in the construction industry.

WSB issued instructions to the 68 field offices of the Wage and Hour Division of the U. S. Department of Labor, currently acting as field offices for WSB, to refer all cases on hand and future requests for rulings, interpretations, or actions to the WSB, Construction Industry Stabilization Commission. WSB's Washington staff also turned over to the construction commission approximately 200 cases on hand in Washington.

During the latter part of June, CISC held regular meetings to discuss matters of policy, procedure and organization. It decided to process as its first case a wage dispute on construction at the atomic energy project at Oak Ridge, Tennessee.

Aim of the commission was to start processing cases early in July.

Personnel

Members of the new commission announced by WSB are:

Public—Thomas J. Kalis, assistant solicitor, Department of Labor, and Archibald Cox, professor, Harvard University Law School, who will serve as co-chairmen; Joseph Shister, De-

partment of Economics, University of Buffalo; and Russell E. Cooley, labor advisor, Bureau of Yards and Docks, U. S. Navy.

Industry—James D. Marshall, assistant managing director, The Associated General Contractors of America; Everett W. Dunn, Hartley, Iowa, consulting engineer; H. R. Cole, executive secretary, Tile Contractors' Association of America; and William J. Cour, National Electrical Contractors' Association.

Labor—Richard J. Gray, president, AFL Building and Construction Trades Department; D. W. Tracy, president, AFL International Brotherhood of Electrical Workers; O. William Blaier, board member, AFL United Brotherhood of Carpenters and Joiners; and John W. Garvey, assistant to the general president, AFL Hod Carriers, Building and Common Laborers Union.

Mr. Marshall, Mr. Dunn and Mr. Cole all served as members of the former Wage Adjustment Board. Mr. Tracy, former Assistant Secretary of Labor, served as chairman of the wartime board.

On the new commission, Mr. Marshall and Mr. Dunn will represent general contractors; Mr. Cole, the subcontractor associations; and Mr. Cour,



12-Man Construction Industry Stabilization Commission Takes Oath

Left to right: Federal Circuit Court of Appeals Judge Charles W. Fahy, who administered the oath; Commission Members Everett W. Dunn, James D. Marshall and Thomas J. Kalis; John Dunlop, public member of the Wage Stabilization Board; CISC Member Joseph Shister; Dr. George W. Taylor, WSB chairman; CISC Members Archibald Cox and Russell E. Cooley; WSB Member Harry C. Bates; and CISC Members William J. Cour, H. R. Cole, Richard J. Gray, O. William Blaier, Daniel W. Tracy, and John W. Garvey.

the specialty contractor associations.

Alternate members may be named later, including a representative of the home building industry.

Reasons for Commission

The WSB stated that a specialized, expert commission was necessary for effective administration of wage stabilization in the construction industry because of the operational and bargaining peculiarities of that industry.

In its Statement of Considerations in General Wage Regulation 12, which established the commission, WSB stated:

"The regulation authorizes the commission to stabilize wages on the basis of areas traditionally established for collective bargaining purposes. This is called for by the nature and practice of the industry and is in accord with industry experience.

"The special characteristics of the industry make many of the board's present regulations, intended for general applicability to industrial employment relations, technically unsuited to the building and construction industry. Effective administration of the wage stabilization function requires a specialized, expert commission. In no other way can the case load and other problems posed by the operational and bargaining peculiarities of this industry be solved.

"Wage rates for federally-financed construction projects in the building and construction industry are determined by the Secretary of Labor under the Davis-Bacon and similar acts

which contain provisions stating that the minimum wages to be paid various classes of laborers and mechanics shall be based upon the wages that are determined by the Secretary of Labor to be prevailing for the corresponding classes of laborers and mechanics employed on projects of a character similar to the contract work in the locality in which the work is to be performed.

"Inasmuch as it would be impractical and unstabilizing to have more than one rate for a particular craft and type of project in an area, rates established under the wage stabilization program and those established by Davis-Bacon determinations must be coordinated and integrated. This cannot be done effectively on a regional basis; it must be accomplished at the national level.

"The organization and functions of the commission are similar to those of the Wage Adjustment Board, which was responsible for wage stabilization in World War II and continued operation after other wage controls were removed. This record led to the request, on February 9, 1951, by representatives of the AFL Building and Construction Trades Department and nine national contractors' associations that the board establish a similar agency."

Secretary of Labor Tobin was consulted by WSB about establishment of CISC and the naming of its members. In a letter to WSB Chairman George W. Taylor, Secretary Tobin stated:

"I am in full agreement with the purposes and form of the General

Wage Regulation establishing the commission which the board proposes to issue.

"In furthering the stabilization effort by the board in the establishment of a Construction Industry Stabilization Commission, I wish to advise that in determining prevailing rates of wages under the acts in which I am charged with such function, I shall as a matter of administrative policy not determine any wage rate to be prevailing in excess of that wage rate which the commission approves for stabilization purposes in a particular area, unless unusual circumstances or compelling evidence to the contrary are presented."

Jurisdiction of Commission

The jurisdiction of the commission established by GWR 12 extends to wages and salaries paid to mechanics and laborers "employed directly upon the site of the work." It does not extend to employees whose work, although connected with construction projects, is non-manual or not performed at the site, such as executive, administrative, technical or clerical employees.

Included in the definition of building and construction industry are persons "engaged in erecting, constructing, and altering, remodeling, painting and decorating installations such as buildings, bridges, highways . . ."

The commission will not handle cases that would normally come before the National Joint Board for the Settlement of Jurisdictional Disputes.

Supreme Court Outlaws Secondary Boycotts

• High Court Upholds Taft-Hartley Ban in Three Cases

» LAST month the U. S. Supreme Court outlawed secondary boycotts in three separate decisions arising out of unfair labor practice charges against building trades unions in Denver, Colorado; Greenwich, Connecticut; and Chattanooga, Tennessee. This was the first decision by the Supreme Court on the secondary boycott provisions of the Taft-Hartley Act since that law was enacted four years ago.

The effect of these decisions is to settle conflicting rulings by lower district and appellate courts on what constitutes an illegal secondary boycott.

The issues in the following cases are similar in that all three arise out

of charges that unions, through strikes and pickets, have forced one employer to cease doing business with another employer in violation of Section 8 (b) (4) (D) of the Taft-Hartley Act. In each case, the Supreme Court held such a practice illegal.

The Denver Case.¹ The following statement of facts is taken from the opinion of Justice Burton:

The principal question here is whether a labor organization committed an unfair labor practice,

¹NATIONAL LABOR RELATIONS BOARD v. DENVER BUILDING AND CONSTRUCTION TRADES COUNCIL ET AL., June 4, 1951—19 Labor Cases 66,347.

within the meaning of § 8(b)(4)(A) of the National Labor Relations Act, as amended by the Labor Management Relations Act, 1947, by engaging in a strike, an object of which was to force the general contractor on a construction project to terminate its contract with a certain subcontractor on that project. For the reasons hereafter stated, we hold that such an unfair labor practice was committed.

In September, 1947 Dooze & Lintner was the general contractor for the construction of a commercial building in Denver, Colorado. It awarded a subcontract for electrical work on the building, in an estimated amount of \$2,300, to Gould & Preisner, a firm which for 20 years had employed nonunion work-

(Continued on page 39)

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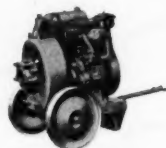
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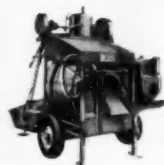
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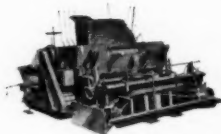
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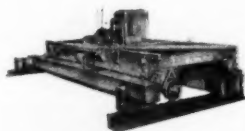
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(Continued from page 36)

men on construction work in that city. The latter's employees proved to be the only nonunion workmen on the project. Those of the general contractor and of the other subcontractors were members of unions affiliated with the respondent Denver Building and Construction Trades Council (here called the Council). In November a representative of one of those unions told Gould that he did not see how the job could progress with Gould's nonunion men on it. Gould insisted that they would complete the electrical work unless bodily put off. The representative replied that the situation would be difficult for both Gould & Preisner and Doose & Lintner.

January 8, 1948, the Council's Board of Business Agents instructed the Council's representative "to place a picket on the job stating that the job was unfair" to it. In keeping with the Council's practice. Each affiliate was notified of that decision. That notice was a signal in the nature of an order to the members of the affiliated unions to leave the job and remain away until otherwise ordered. Representatives of the Council and each of the respondent unions visited the project and reminded the contractor that Gould & Preisner employed nonunion workmen and said that union men could not work on the job with nonunion men. They further advised that if Gould & Preisner's men did work on the job, the Council and its affiliates would put a picket on it to notify their members that nonunion men were working on it and that the job was unfair. All parties stood their ground.

January 9, the Council posted a picket at the project carrying a placard stating "This Job Unfair to Denver Building and Construction Trades Council." He was paid by the Council and his picketing continued from January 9 through January 22. During that time the only persons who reported for work were the nonunion electricians of Gould & Preisner, January 22, before Gould & Preisner had completed its subcontract, the general contractor notified it to get off the job so that Doose & Lintner could continue with the project. January 23, the Council removed its picket and shortly thereafter the union employees resumed work on the

project. Gould & Preisner protested this treatment but its workmen were denied entrance to the job.

On charges filed by Gould & Preisner, the Regional Director of the National Labor Relations Board issued the complaint in this case against the Council and the respondent unions. It alleged that they had engaged in a strike or had caused strike action to be taken on the project by employees of the general contractor and of other subcontractors, an object of which was to force the general contractor to cease doing business with Gould & Preisner on that project.

After ruling that the activities of the parties involved affected commerce sufficiently to justify the N.L.R.B. in asserting jurisdiction over the case, the court went into the question of the alleged secondary boycott.

The Secondary Boycott.—We now reach the merits. They require a study of the objectives of the strike and a determination whether the strike came within the definition of an unfair labor practice stated in § 8(b)(4)(A).

The language of that section which is here essential is as follows:

"(b) It shall be an unfair labor practice for a labor organization

 "(4) to engage in *** a strike *** where an object thereof is: (A) forcing or requiring *** any employer or other person *** to cease doing business with any other person; ***" 61 Stat. 141, U.S.C. (Supp. III) § 158(b)(4)(A).

While § 8(b)(4) does not expressly mention "primary" or "secondary" disputes, strikes or boycotts, that section often is referred to in the Act's legislative history as one of the Act's "secondary boycott sections." The other is § 303, 61 Stat. 158, 29 U.S.C. (Supp. III) § 187, which uses the same language in defining the basis for private actions for damages caused by these proscribed activities.

Senator Taft, who was the sponsor of the bill in the Senate and was the Chairman of the Senate Committee on Labor and Public Welfare in charge of the bill, said, in discussing this section:

"*** under the provisions of the Norris-LaGuardia Act, it became impossible to stop a secondary boy-

cott or any other kind of a strike, no matter how unlawful it may have been at common law. All this provision of the law as to secondary boycotts. It has been set forth that there are good secondary boycotts and bad secondary boycotts. Our committee heard evidence for weeks and never succeeded in having anyone tell us any difference between different kinds of secondary boycotts. So we have so broadened the provision dealing with secondary boycotts as to make them an unfair labor practice."

In the background of the instant case there was a long-standing labor dispute between the Council and Gould & Preisner due to the latter's practice of employing nonunion workmen on construction jobs in Denver. The respondent labor organizations contend that they engaged in a primary dispute with Doose & Lintner alone, and that they sought simply to force Doose & Lintner to make the project an all-union job. If there had been no contract between Doose & Lintner and Gould & Preisner there might be substance in their contention that the dispute involved no boycott. If, for example, Doose & Lintner had been doing all the electrical work on this project through its own nonunion employees, it could have replaced them with union men and thus disposed of the dispute. However, the existence of the Gould & Preisner subcontract presented a materially different situation. The nonunion employees were employees of Gould & Preisner. The only way that respondents could attain their purpose was to force Gould & Preisner itself off the job. This, in turn, could be done only through Doose & Lintner's termination of Gould & Preisner's subcontract. The result is that the Council's strike, in order to attain its ultimate purpose, must have included among its objects that of forcing Doose & Lintner to terminate that subcontract. On that point, the Board adopted the following finding:

"That an object, if not the only object of what transpired with respect to *** Doose & Lintner was to force or require them to cease doing business with Gould & Preisner seems scarcely open to question, in view of all of the facts.

And it is clear at least as to Doose & Lintner, that that purpose was achieved." (Emphasis supplied.) 82 N.L.R.B. at 1212 [23 LRRM 1656].

We accept this crucial finding. It was an object of the strike to force the contractor to terminate Gould & Preisner's subcontract.

B. We hold also that a strike with such an object was an unfair labor practice within the meaning of § 8(b)(4)(A).

It is not necessary to find that the sole object of the strike was that of forcing the contractor to terminate the subcontractor's contract.

The court then overruled the Circuit Court of Appeals for the District of Columbia which had held that the relationship between a general contractor and a subcontractor did not constitute "doing business."

We agree with the Board also in its conclusion that the fact that the contractor and subcontractor were engaged on the same construction project, and that the contractor had some supervision over the subcontractor's work, did not eliminate the status of each as an independent contractor or make the employees of one the employees of the other. The business relationship between independent contractors is too well established in the law to be overridden without clear language doing so. The Board found that the relationship between Doose & Lintner and Gould & Preisner was one of "doing business" and we find no adequate reason for upsetting that conclusion.

The court laid down the ruling that the free speech provisions of Section 8 (c) of the Taft-Hartley Act do not permit a union to picket where its object is illegal, such as in this case. The court distinguished this case from the Rice Milling Case² decided the same day.

There the accused union sought merely to obtain its own recognition by the operator of a mill, and the union's pickets near the mill sought to influence two employees of a customer of the mill not to cross the picket line. In that case we supported the Board in its conclusion that such conduct was no more than

was traditional and permissible in a primary strike. The union did not engage in a strike against the customer. It did not encourage concerted action by the customer's employees to force the customer to boycott the mill. It did not commit any unfair labor practice proscribed by § 8(b)(4).

Justices Douglas, Reed and Jackson dissented. In their opinion, Justices Douglas and Reed contend that the picketing in this case was a protest against the employment of union and nonunion men on the same job and was not intended to "destroy the contractor because of his anti-union attitude." They also contend that the picketing in this case would have been legal if there had been no subcontractor involved.

The presence of a subcontractor does not alter one whit the realities of the situation; the protest of the union is precisely the same. In each the union was trying to protect the job on which union men were employed. If that is forbidden, the Taft-Hartley Act makes the right to strike, guaranteed by § 13, dependent on fortuitous business arrangements that have no significance so far as the evils of the secondary boycott are concerned.

The Greenwich Case.³ This was a similar action as in the Denver case brought by a nonunion electrical subcontractor against the I.B.E.W. charging the union with forcing the general contractor to cancel his contract with the electrical subcontractor by the use of a picket line on the construction of a \$15,200 private dwelling in Greenwich, Connecticut. The U. S. Supreme Court said even though the picketing was peaceful, it did induce or encourage employees to engage in a secondary boycott in violation of the law. In this connection, it said:

While in the Denver case we have held that § 8(c) had no application to a strike signal, there are other considerations that enter into the decision here. The question here is what effect, if any, shall be given to § 8(c) in its application to peaceful picketing conducted by a labor organization or its agents merely as an inducement or encouragement of

employees to engage in a secondary boycott. Petitioners contend that § 8(c) immunizes peaceful picketing, even though the picketing induces a secondary boycott made unlawful by § 8(b)(4). The Board reached the opposite conclusion and the court below approved the Board's order as applied to the facts of this case which it recognized as amounting to "bare instigation" of the secondary boycott. We agree with the Board.

The Supreme Court said the N.L.R.B. was justified in "asserting its jurisdiction over a case of this size" because both the general and the specialty contractors were operating in interstate commerce, their main offices being located in another state.

The Chattanooga Case.⁴ In this case the specialty contractor filed charges against the Carpenters' Union which sought to enforce a ruling that none of its members could work on a project where nonunion men were employed. The court held that the object of the strike was to force the project owner to cancel his contract with the specialty subcontractor who had agreed to furnish floor and wall covering on a house renovation project. Justices Reed, Douglas and Jackson dissented in both the Greenwich and Chattanooga cases, but no dissenting opinions were written as in the Denver case.

Salary Stabilization Board

Members of a new Salary Stabilization Board, to be organized early in July, were named late in June to develop and execute policies to stabilize salaries for executives, administrative, professional, and certain sales and supervisory employees under definitions of the Fair Labor Standards Act. All represent the public. They are:

Dr. Raymond B. Allen, Seattle, President, University of Washington, chairman Ellsworth C. Alvord, Washington, D. C., attorney and Chairman, Chamber of Commerce Committee on Federal Finance; Clinton S. Golden, formerly of CIO steelworkers union and lecturer at Harvard Business School; Charles P. McCormick, Baltimore, of the spice and food firm.

²NATIONAL LABOR RELATIONS BOARD v. INTERNATIONAL RICE MILLING COMPANY, INC. ET AL. June 4, 1951—19 Labor Cases 66,316.

³INTERNATIONAL BROTHERHOOD OF ELECTRICAL WORKERS, LOCAL 501, AFL ET AL. v. NATIONAL LABOR RELATIONS BOARD, June 4, 1951—19 Labor Cases 66,348.

⁴LOCAL 74, UNITED BROTHERHOOD OF CARPENTERS AND JOINERS OF AMERICA, AFL ET AL. v. NATIONAL LABOR RELATIONS BOARD, June 4, 1951—19 Labor Cases 66,349.

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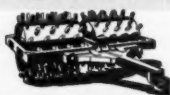
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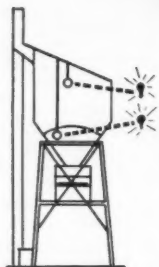


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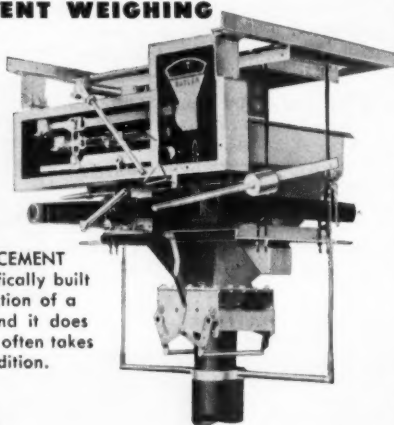
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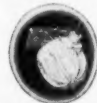
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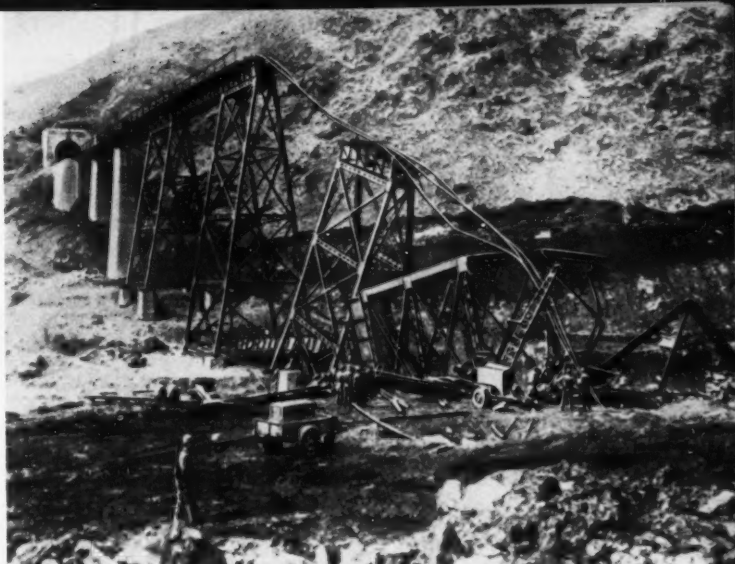
WAUKESHA, WIS.

How 439th Battalion Handled Difficult Job

» A DIFFICULT job calling for technicians and materials that were not available—possibly the major engineering feat of the Korean campaign—has been completed by the 439th Engineer Construction Battalion with dispatch and ingenuity, resulting in commendations from many high Army sources.

In its mission of keeping open a large sector of main supply route roads and railroads to one of the important front line Army corps, the battalion completed mile after mile of railroad and highway northward this spring until it ran into the ruins of the famous Kilra Chon bridge, about five miles southeast of Wonju.

This bridge was the last link in completing the railroad line to the important Wonju rail center, and the battalion was faced with a race against time to complete the structure so supplies could be delivered by rail into Wonju in advance of the expected Chinese Red offensive.



Above, April 1—"This is what we faced when we started," wrote Lt. Col. M. C. Miller, commanding officer of the 439th. "The tension on the tangled steel was so terrific that when we cut a member, it would snap like a fiddle string. There was constant danger of the whole thing tumbling down on us."

A.G.C.—Affiliated Units in Korea Keep Men and Materiel Moving

Army Secretary Frank Pace Praises 439th's Korean Bridge Job

• "Would Have Been a Major Engineering Feat Here at Home," He Tells Georgia Tech Graduates

(Following is an excerpt from Secretary Pace's commencement address at Georgia Institute of Technology, June 11, on "The American Engineer in Peace and War.")

LAST APRIL, I visited the battlefield in Korea. Korea has been called an infantryman's war, a tanker's war, an airman's war and so on. I'd like to report most emphatically that it is also an engineer's war. In an unbelievably rugged country with primitive roads and decrepit railroads, our Army engineers are doing a superb job to keep men and materiel moving to where they are needed. Many engineer officers no older than members of this graduating class are solving engineering problems with an ingenuity and technical skill which I am sure would delight your professors here at Georgia Tech. They are also organizing and directing unskilled Korean labor in a manner that would make a crack foreman sit up and take notice.

As in past wars, the Army in Korea is depending heavily on its engineer reserve units. I'd like to tell you about one such unit—the 439th Engineer Construction battalion of the 32nd Engineer Group. This outfit, incidentally, is what is known as an affiliated reserve unit. It was sponsored by the Kansas Contractors Association (A.G.C.), which helped the Army organize it.

During a withdrawal from Wonju, a major rail center near Seoul, American engineers destroyed the famous Kilra Chon railroad bridge. They did a good job—as the 439th Engineer Battalion found out when it was called upon to rebuild the bridge after our troops had retaken Wonju.

The Kilra Chon bridge, a steel suspension type, was about 800 feet long and its steel towers were about 120 feet high—roughly the height of an 11-story building. The engineers of the 439th had two major tasks. First, they had to rebuild the towers. Then they had to launch girders 270 feet long and weighing some 130 tons over gaps between abutments and piers that were 65 feet apart in some places.

As you engineers appreciate better than I, this would have been a major engineering feat here at home. It was doubly difficult for the 439th because they had no experienced high steel men in their outfit and no material with which to build a working platform. However, they did have cranes. By building extensions on the booms of the cranes, they improvised substitutes for the working platforms. The officer commanding this battalion, incidentally, does not recommend this technique as standard procedure—even though it worked well in this case.

Next came the launching of the girders which was accomplished by improvised rollers, tractors, and a great amount of plain Yankee ingenuity. While rebuilding this bridge, the 439th Battalion managed to salvage from the wreckage, some 300 tons of steel—a scarce item in Korea.

How long did this job take? Exactly 17 days after the engineers of the 439th Battalion had started work, the first railroad locomotive puffed across the rebuilt Kilra Chon bridge.

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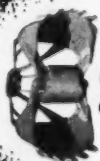


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NATIONAL DEFENSE

The Army engineers had been there before, performing only too well their mission of making certain that the Communist forces could never use the railway. Two 105-foot trestles were blown out of the center of an 800-foot trestle bridge that had a rail elevation of 120 feet above the stream bed. When the two trestles were blown, they fell against the trestles on either side, badly damaging them.

"Therefore," wrote Lt. Col. M. C. Miller, commanding officer of the battalion, "when we started this project on the first of April, we were faced with the tremendous task of cleaning up a terrific mass of tangled, broken steel, the wreck of two 105-foot steel trestles, extensive repairs to the existing but badly damaged trestles, and the fabrication of a 260' 48" I-beam box girder, then pulling that 150-ton mass of steel out over the new towers and jacking it down in place. The job was so vital that we were under constant surveillance of practically every general in the theater, most of the engineer officers of the Far Eastern Command and all the engineer officers of the 8th Army."

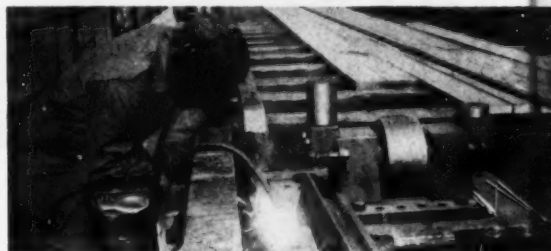
"We started cleaning up the site on the first of April and were able to start the erection of the two new towers and the repair of the two damaged



"To top out the towers, we had to hang 110 feet of boom on a $1\frac{1}{2}$ c.y. P & H crane. Lucky, but we got by with it, Thank God." (Wide World Photo)

Right: 120 feet above the ground, welder on construction platform works on base for improvised rollers on which 260-foot girders rode during launching through 65-foot gaps of space between abutments and piers.

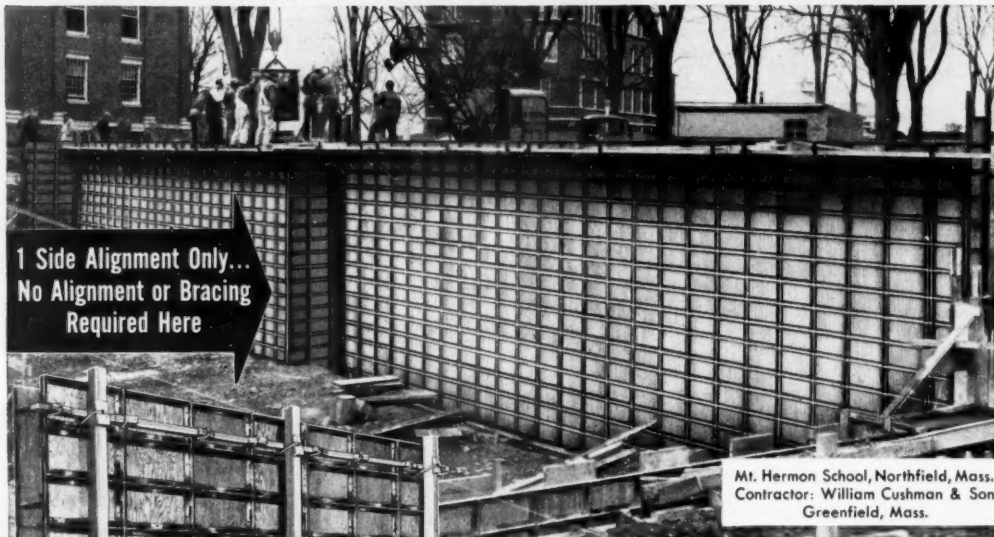
(Wide World Photo)



Here is pictured what is perhaps the most dramatic part of the engineering feat. At left, Col. Miller is shown directing the girder launching from his jeep with radio and field glasses. At right, the 130 tons of unwieldy steel creeps out through thin air. "We launched the 260 feet in 66 minutes," wrote Col. Miller. "Seemed like 66 days. 'I'll bet that I re-swallowed my heart 500 times. Had to launch on a down grade of 1.15% and I wasn't sure we could hold it back.'"

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Service Wherever You Build...Coast-to-Coast



April 22—17 days after the 439th started work on the new bridge (cleanup of debris began on April 1)—“Probably the most beautiful sight we will ever see. My GI’s really believed in themselves, because as many as the train would hold piled on for the first trip. The two towers under the train are the new ones.” Thus ended successfully what was probably the most difficult major engineering job of the Korean campaign which, because of its vital function, was viewed by most of the general officers in the theater and most of the engineering officers of the Far Eastern Command.

towers on the fifth of April. With exceptionally wonderful luck and the not-to-be-denied efforts of every man in the battalion, we were able to put the first train across the new bridge on the afternoon of April 22, much to the surprise of everyone concerned and especially us . . . We were visited by representatives of the Associated Press, *Saturday Evening Post* and most of the theater publications . . .

“To me the most wonderful part of the entire project was the fact that we did not have a single serious accident despite the fact that we started the job without anyone who had ever

worked on high steel. I can guarantee you that we have some high steel veterans now.”

Col. Miller, at the time his unit was called to duty late last year, was vice chairman of the Highway Contractors Division of The Associated General Contractors of America, and president of the Kansas Contractors Association, A.G.C. His firm is the San-Ore Construction Company, McPherson, Kansas.

Col. Miller reported that his executive officer, Major Claude Rhoades of the Rhoades Construction Company, A.G.C., Newton, Kansas, was given

command of the 430th Engineer Construction Battalion shortly before April 1.

He wrote the Kansas Contractors Association:

“Of course, our accomplishments will soon fade into oblivion along with many more historic accomplishments of this campaign . . . (but) I can guarantee you that the A.G.C.’s affiliation program is very popular . . . Your sponsorship of the unit will never need be regretted.”

The unit is one of two A.G.C.-sponsored battalions now seeing active duty in the Korean theater.

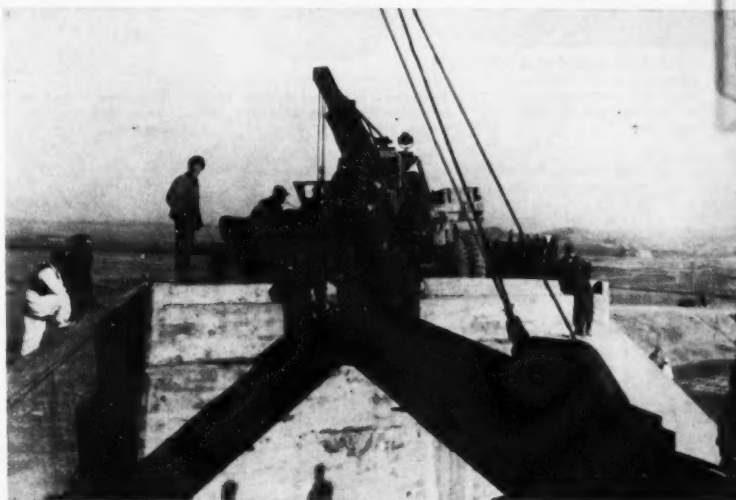
453rd Having Workout in Rebuilding Bridges

» OFFICERS and men of the 453rd Engineer Construction Battalion, sponsored by the Spokane Chapter, A.G.C., are getting a prolonged workout in the rugged mountains of Korea, according to word received last month from a member of the unit.

The fine photography of some of the work of the 453rd appearing on this and the following page is the work of M/Sgt. John R. Ulrich, Jr., member of the *Spokane Daily Chronicle* editorial staff, now on active duty with the unit in Korea. Sgt. Ulrich’s story and pictures were published in the *Chronicle* June 9.

Right—453rd Battalion members place girder for a railroad overpass near Kyongsan, one of many large and small bridge rebuilding jobs done by the unit.

(Photo courtesy Spokane Daily Chronicle)

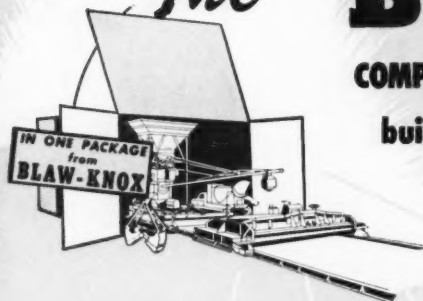


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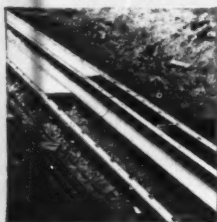
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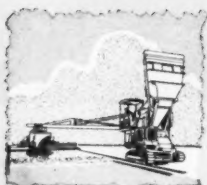
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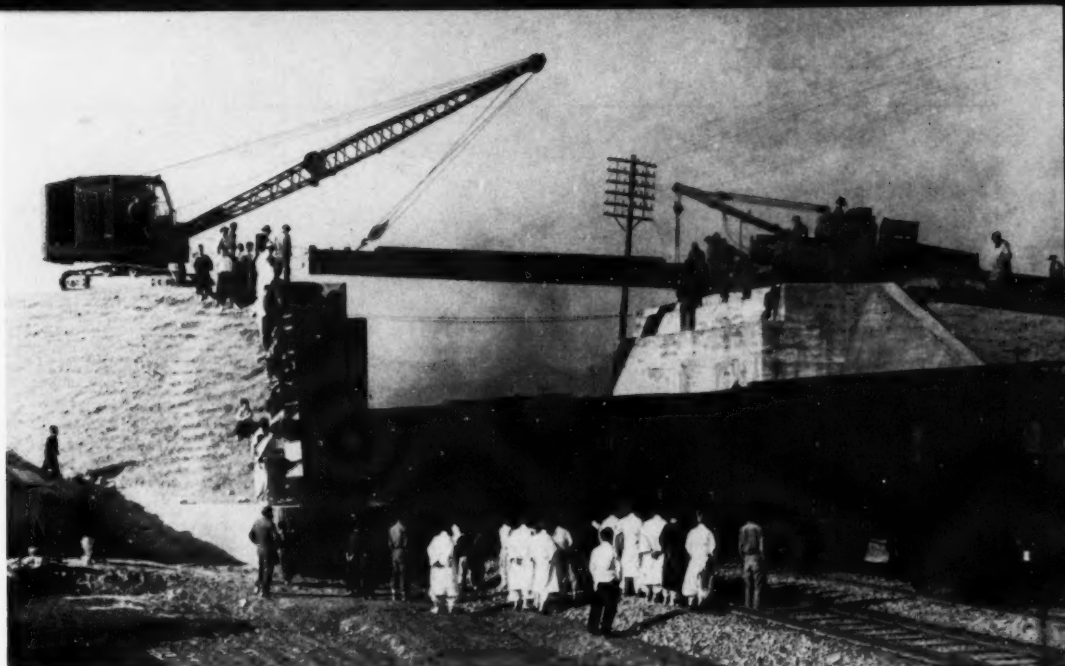
Concrete Bucket



Hi-Boy Truckmixer



Truck Mixer Loading Plant



(Photo courtesy Spokane Daily Chronicle)

Natives watch while the 453rd rebuilds railroad overpass in Korea. The concrete abutments were already in place and undamaged when C company was assigned to the job. Hazards of Korean engineer work often are increased by the South Korean "sidewalk superintendents."

Of Korea's rugged terrain, Sgt. Ulrich wrote:

"One Yank recently commented that if Korea could be rolled out flat, it would be as big as the United States . . . The bridges range in size from 10-foot culverts to long multiple span bridges across the major rivers. During the off season, bridge construction in Korea is apt to look a little silly because much of it is done on dry land. Korea's streams, after the winter run-off has passed and before the rainy

season begins, drop to a trickle or to nothing at all (except for the major rivers) . . .

"Thus far the 453rd Engineers have completed a number of bridge jobs along the major supply routes to the front lines. This is the first time that it has been possible to reveal some of the work accomplished by the battalion since its arrival in Korea last winter.

"In addition to the work of the line companies in building bridges, the men of the battalion have also contributed

to better travel (which isn't good at its best) by maintaining roads that the slightest rain leaves as quagmires, and by rebuilding rail lines.

"The heavy equipment operators, the maintenance men, and the heavy truck drivers have often been called on to assist other units in road repair, air strip construction and maintenance, and hauling tons and tons of supplies from 1 x 6 lumber to 48-inch I-beams."

The 453rd is under the command of Lt. Col. Jesse B. Barber, Spokane.

Chow line of 453rd's headquarters and service company somewhere in Korea. Tents back of kitchen are living quarters, village in background.

(Photo courtesy Spokane Daily Chronicle)



Back in the States . . .



Another Unit Is Called to Active Duty . . .

The 841st Engineer Aviation Battalion, sponsored by the South Florida Chapter, A.G.C., was entertained by the chapter before it shipped out. Here (left to right) Captain John R. Lindsey, adjutant Maj. Anson B. DeWolf, executive officer; and Lt. Col. Armon K. Ries, commanding officer, receive the flag of the State of Florida from Chapter President Frank J. Rooney, Director Joe R. Edwards, and Secretary-Treasurer George Preston.



And Another Battalion Is Activated

Colonel H. R. Phipps, senior army reserve unit instructor here (seated) reads orders to form a reserve engineering battalion to construct, maintain and defend airfields, under the sponsorship of the Association of Oklahoma General Contractors, A.G.C. Behind Col. Phipps stand Lt. Col. C. L. Mansur, battalion commander; Glenn McDonald, chapter manager; Capt. J. G. Mavis, Capt. Ben Repass, and Capt. M. L. Knotts, all company commanders; and A. H. Layman, chapter member.

Affiliation Program Status

Since The Associated General Contractors of America agreed in the fall of 1947 to sponsor and help organize "the backbone" of the Corps of Engineers' reserve affiliated units, the association's chapters and branches have given the program their wholehearted support.

During the intervening 3½ years, the A.G.C., its chapters and branches have drawn frequent praise and letters of appreciation from high Army sources for their efforts.

Even more satisfaction has been realized by A.G.C. members in the praise extended these units for their training aptitude during the past two years, and, more recently, for the accomplishments of those units in Korea

A.G.C. Chapters Participate in Civil Defense
 —Page 55
Formula for Judging Building Safety Against A-Blasts
 —Page 56
Mammoth Air Force Testing Base Under Construction
 —Page 75

which are brilliantly putting into practice the purpose for which they were formed—utilization in the sinews of war, when necessary, of the construction skills acquired in peacetime.

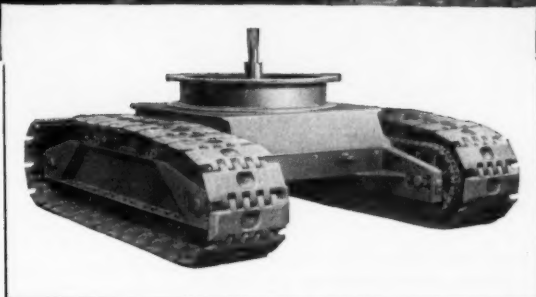
Today, the number of units being alerted for active duty or taking active part in training is increasing. Status of the A.G.C. affiliation program is:

77 sponsored: 23 engineer construction groups, 21 engineer construction battalions, 20 engineer aviation battalions, 7 engineer aviation groups, 3 engineer aviation brigades, 1 engineer dump truck company, 1 engineer maintenance and supply group, and 1 engineer heavy equipment company.

17 are on active duty, all are activated, and all but one a "training unit," are on the troop list.

A.G.C. chapters are proud of their units, and honored to be their sponsors. Banquets, special meetings and "send-off" parties have been held in their honor in recent weeks.

The Navy's famous "Seabees" have handled some rough assignments in Korea. A description of some of their exploits, as well as a roundup of the Navy's accelerated construction program for its big shore establishment, will be included in the August issue of THE CONSTRUCTOR.



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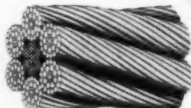
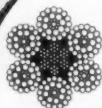
Deep recessing and full enclosure of mechanism, flush bottom, and high ground clearance provide maximum protection and maneuverability. Field maintenance is simple and quick. In fact, in every way, Link-Belt Speeder all-welded construction is truly "tough as a tank."

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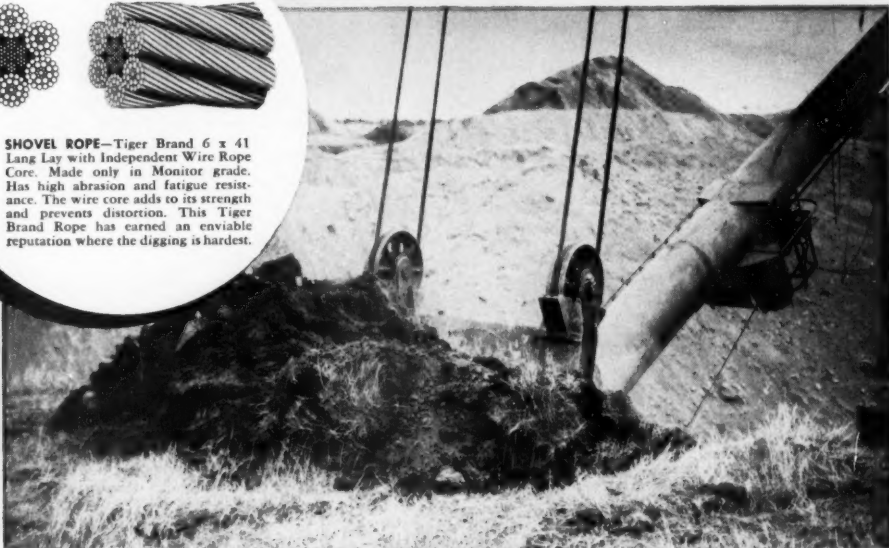
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AMERICAN TIGER BRAND WIRE ROPE

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UNITED STATES STEEL

» CHAPTERS and branches of The Associated General Contractors of America have responded to requests from local civil defense authorities for cooperation in planning the most effective use of the construction industry's experience, equipment and personnel.

Cooperation between local civil defense authorities and organizations in the industry such as A.G.C. chapters has been stressed in two reports submitted to the Federal Civil Defense Administration by the national A.G.C. in June and December 1950.

These reports, made at the request of FCDA or its predecessor agencies, were compiled by the A.G.C. Civil Defense Committee, composed of the elected officers of the association, in collaboration with Managing Director H. E. Foreman and other members of the national staff.

Engineering Manual Due

Close liaison between the A.G.C. and FCDA has been maintained since March 1950 when the association was requested by the National Security Resources Board to undertake the task of preparing a plan for utilization of the construction industry's facilities in times of disaster.

The final, detailed A.G.C. report was sent to chapters and released to the press in January 1951. The FCDA is expected to issue in about a month an Administrative Manual for Engineering Services which will make use of the material prepared by A.G.C. The manual will contain a suggested outline of actions for local civil defense organizations, and is expected to be of assistance to construction organizations such as A.G.C. chapters and branches.

Chapter Cooperation Favorable

A roundup of actions which have been taken to date by a number of A.G.C. chapters with local civil defense authorities follows.

Arizona

ARIZONA CHAPTER

A.G.C. represented on staff of state Engineering Works Chief by Joseph A. Condrey, executive secretary, and Glenn A. Dowdy, administrative assistant.

Chapter has established and will maintain files of all A.G.C. members in the state, together with current listing of their equipment.

A.G.C. unit of Engineering Works Section serves as direct liaison between

A.G.C. Backbone of Civil Defense Role for Construction Industry

- Chapters Participate in Increasing Local Activity
- Association Advised FCDA on Engineering Manual

the state Construction Chief and A.G.C. members.

California

SOUTHERN CALIFORNIA CHAPTER

Committee of contractor members established at request of state Civil Defense Department to work with city and county building departments in selecting air raid shelters. Committee to be in full charge of demolition and temporary housing facilities for the public in event of disasters. Regular meetings held with California civil defense authorities. Donald MacIsaac, A.G.C. chairman.

Inventory of all chapter members' equipment, showing type, size and location, compiled and furnished civil defense officials.

Colorado

COLORADO BUILDING CHAPTER

Three-man committee appointed by Chapter President Howell to cooperate with Denver Civil Defense Director.

Report filed with Civil Defense Director listing available construction equipment and key personnel available for assigned duties as needed.

Missouri

A.G.C. OF MISSOURI

Chapter Manager E. C. L. Wagner appointed Coordinator of Engineering Services of the State Council of Defense, June 1, 1951. Conducts school for architects and engineers in shelter provision and protection of plants, public utilities, and official records and documents. Coordination of various civil defense services, including rescue, demolition, debris removal, and emergency restoration of public facilities.

A.G.C. OF ST. LOUIS

The city's civil defense rescue service will be established and maintained by the A.G.C. of St. Louis. A rescue company, composed of 30 eight-man squads recruited primarily from con-

struction workers is planned for each police district. Heavy equipment teams are being established in strategic parts of the city. These will do demolition work and removal of debris. This was announced May 2 by civil defense director Raymond R. Tucker after conferences with President J. C. Bodine, Henry Schenler chairman of the A.G.C. civil defense committee, and Henry S. Till, chapter manager.

Nevada

NEVADA CHAPTER

Chapter Manager Edward L. Pine appointed to Nevada State Council of Defense, June 6, 1951.

New York

NEW YORK STATE CHAPTER

The A.G.C. New York State Chapter and the New York State Department of Public Works in August 1950 established a working relationship for the purpose of an effective utilization of the repair and construction potential of the state in the event of an enemy attack. Roscoe C. Holmes, chapter president at the time, and B. A. Lefevre of the Department of Public Works, were appointed co-chairmen.

Ohio

CINCINNATI CHAPTER

Chapter Manager J. A. Higgins serves as Coordinator of Operations Group, Cincinnati Civil Defense.

Road repair unit, water main repair unit, bridge unit, sanitation unit, sewer repair unit, equipment repair, maintenance and automotive pool unit and heavy equipment unit of civil defense organization all supervised by chapter members.

Survey of all construction equipment in area compiled.

OHIO CONTRACTORS ASSOCIATION

Chapter requested by Commanding Officer for Ohio Civil Defense to aid in organization and planning.

South Dakota

HIGHWAY CONSTRUCTION INDUSTRY OF SOUTH DAKOTA

Chapter member John L. Materi serves as member of South Dakota Civil Defense Council in charge of Emergency Repair and Transportation Section. Chapter Secretary W. S. Hannan is assistant to Mr. Materi. Chapter conducted survey of construction and transportation equipment in South Dakota.

Chapter Secretary Hannan serves as Defense Director of Pierre, and Hughes County.

Tennessee

MISSISSIPPI VALLEY FLOOD CONTROL BRANCH

Chapter Manager R. W. Crawford serves on Executive Committee of the Civil Defense Organization of Memphis.

Chapter is set up under engineering services to supply equipment and personnel in event of disaster.

List of construction equipment and personnel compiled by chapter.

Texas

FORT WORTH CHAPTER

Chapter Member Thomas S. Byrne and Chapter Manager R. B. Dunbar are members of Emergency Board for Civil Defense.

HOUSTON CHAPTER

President Fred Fisher and Executive Secretary Loy W. Duddleston have offered the services of the chapter to Colonel A. W. Snyder, city director of civil defense. It cited the cooperation being given to civil defense officials by various chapters and the national A.G.C., and the spontaneous mobilization of Houston contractors through the chapter secretary for relief of the Texas City disaster.

West Virginia

A.G.C. OF WEST VIRGINIA

Chapter Executive Committee Member Charles J. Kuhn serves as chief of the Engineering Division, W. Va. Civil Defense. Has responsibility for advising and consulting with state civil

defense office for the organization and training of contractors in rescue, demolition work, and clearing of debris.

Washington

MOUNTAIN PACIFIC CHAPTER

Active part taken in establishing Seattle civil defense program.

Collection points for construction equipment and personnel established throughout the city, and construction firms tabulated and assigned to various collection point headquarters.

Complete survey of construction equipment made and given to Civil Defense Coordinator.

Chapter has responsibility for coordination of construction activities in Seattle area.

Jack Samuelson is chairman of chapter's civil defense committee.

The following chapters have offered their services to state or local civil defense authorities with no action taken by the authorities: A.G.C. of Iowa, Kentucky Highway Division, A.G.C. of Massachusetts, and Nebraska Building Chapter.

Formula Devised to Judge Building Safety

• Civil Defense Delegates Apply System to Washington Structures

» THE shelter value of a building against an atomic blast can now be measured by simple arithmetic.

The scoring system, developed by the Lehigh University Institute of Research and the U. S. Census Bureau, in cooperation with Federal Civil Defense Administration, was described to state civil defense officials and technicians attending a two-day conference on bomb shelters at the F.C.D.A. Staff College at Olney, Maryland, near Washington, D. C., and was used by the officials in evaluating the shelter adequacy of nine Washington buildings.

It was suggested by F.C.D.A. officials that the conferees organize statewide meetings in their own territories so they can explain the method to city civil defense technicians. A suggested schedule for such conferences was given out at the meeting.

The 60 officials, representing all 48 states, were told that they should concern themselves with providing shelter for the approximately one-third of the total population which is concentrated in critical target areas, and that such shelter must provide protection against

blast, nuclear radiation and heat, including their secondary effects, such as collapse of buildings, flying debris and fire.

Lehigh Blast Ratings

Civil Defense Administrator Millard Caldwell told the gathering that existing buildings must be utilized as far as possible, and should be rated on the

following basis, which was developed by the Lehigh University researchers under the direction of Dr. Glenn J. Christensen:

Type of construction—if the building is steel frame or reinforced concrete, score 20 points, the maximum; overhead protection—if there are four strong floors above to shield off the blast, 20 points; lateral protection—if there are at least a firm outer wall and an inner one between personnel and the blast, 20 points.

Other features—if there is at least one type of exit for getting out in case



Evaluating a Washington building are: Dr. Benjamin M. Nead, originator of shelter value formula from Lehigh University Institute of Research; Inspector C. G. Smith, District of Columbia Fire Department; J. D. Dusenberry, Technical Services, FCDA; and Irvin S. Rasmusson, Colorado Civil Defense.

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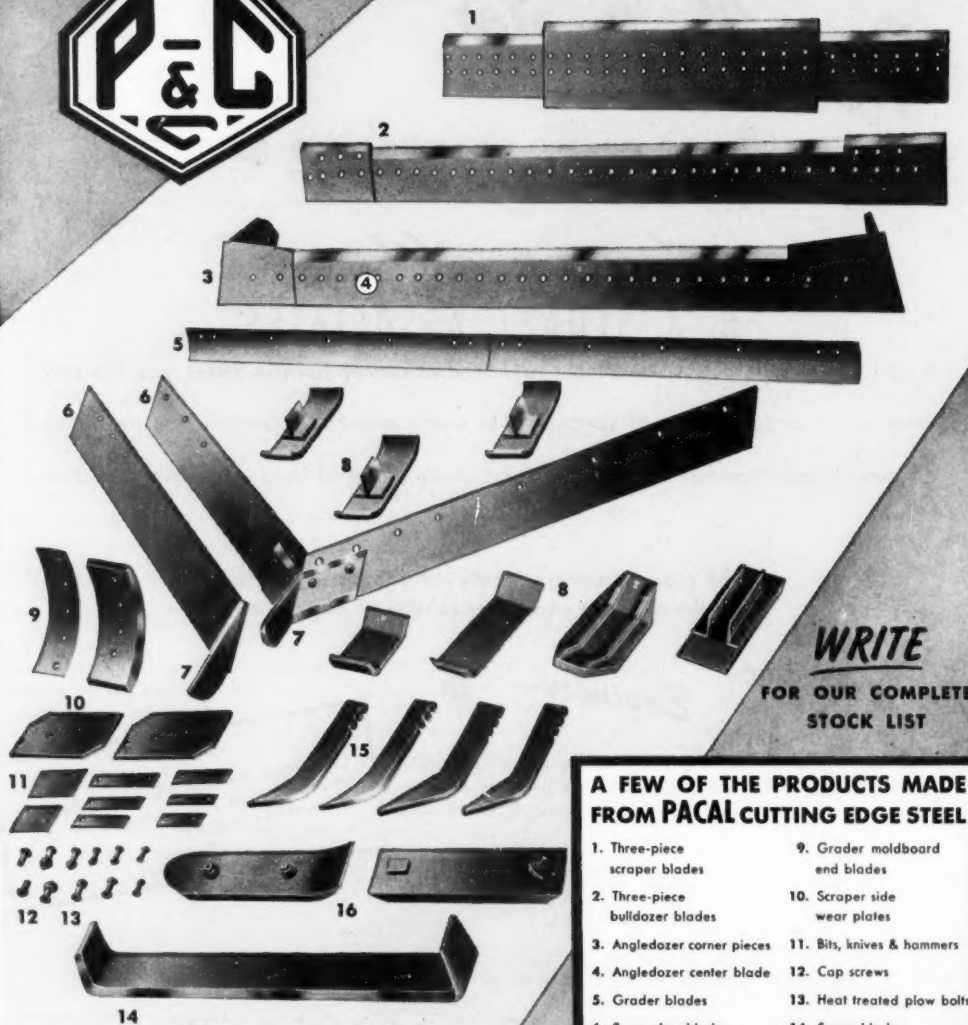
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CIVIL DEFENSE

the building is hit, five points; if there is no danger that the blast will hit glass near personnel and convert it to speeding missiles, five points; if the shelter has no utilities such as furnaces which might lead to fires, two points; if there are no heavy ornaments or hanging ceilings, one point; and if there are no explosives or gasoline stored nearby, one point.

The top score is 70-74, which indicates the building is usable without further investigation. Other groupings are 64-69, indicates the need of investigation by technically trained personnel; 55-63, second choice for such investigation; 54 or under, not to be considered.

Innermost "Core" Safest

The innermost "core" of a reinforced concrete or steel frame building offers the most protection, according to the scoring criteria, other likely places being halls, stairwells, elevator lobbies, rest rooms, storage rooms and auditoriums.

The scoring system also outlines the procedure developed by the Census Bureau for determining "normal peak" population of a given area, making it possible to ascertain for each area or block whether there is enough or not enough shelter. This information will, in turn, show where and how much shelter must be provided through new construction.

A panel of special consultants, representing construction firms and associations, architectural and engineering societies, and government agencies, spent several weeks evaluating and analyzing the Lehigh studies before they were released. The Associated General Contractors of America was represented by Mr. Fred R. Flettemeyer, president of the Frank N. Cooper Company, A.G.C., Detroit, Michigan.

Administrator Caldwell told the conference that there still may be a need to build new communal shelters after all existing structures in critical areas have been surveyed, but he pointed out that Congress has failed so far to provide shelter construction funds. He said the maximum use of existing building will save time, money and materials.

Underground Garages "Unsuitable"

Frederic A. Pawley, member of the consultant panel and spokesman for the American Institute of Architects, expressed the belief that dependence upon dual purpose underground ga-

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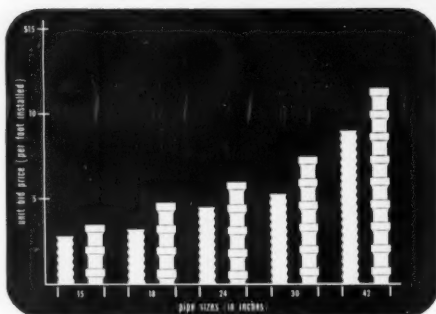
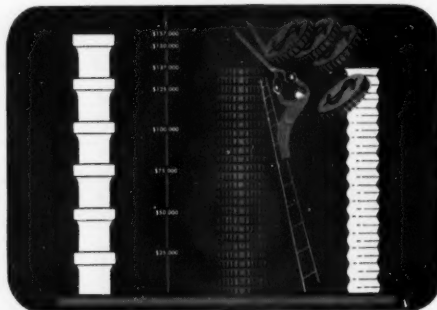
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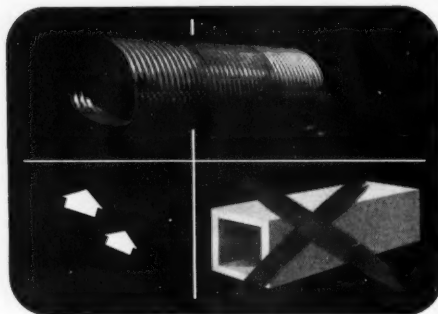
CASE 1

The successful bidder on more than 22 miles of highway subdrainage for an eastern state figured the job two ways. First, he bid the job with short section, rigid pipe. Then by figuring an alternate bid using Armco Corrugated Metal Pipe he reduced his original estimate by more than \$19,000.



CASE 2

Actual low bids on a mid-western drainage job show how experienced contractors bid Armco Corrugated Metal Pipe and short, sectional pipe on an installed basis. Averages for the total job indicate that it was considered necessary to bid 33.8% higher to install short, sectional pipe.



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CIVIL DEFENSE

rages is a "great fallacy." He said that garages are unsuitable as bomb shelters because of the danger of exploding gasoline tanks and shattering glass and debris, and said that construction of shelters to house 25,000 or 50,000 persons would be unwise because only a few thousand could reach each shelter in time to use it. Pointing out that the effectiveness of any shelter is governed by the tributary access routes such as sidewalks, stairways, elevators, doorways, etc., Mr. Pawley stated that a 150-car garage, if empty, could shelter 10,000 people, which is many more than could reach it in time.

Release of the system for determining shelter in existing buildings marks the first phase of the F.C.D.A. shelter program. Manuals will be released later on construction of shelters for the home, modification of commercial structures to afford protection from atomic attack, and construction of backyard and communal type shelters.

Navy Civil Defense Course

Naval Reservists who expect to participate in civil defense activities in their communities are invited to apply for two weeks active duty at the 'Civil Engineer Corps' Disaster Relief Course, Port Hueneme, Calif.

Those who complete the course qualify as consultants in their own communities, and the course is open to officers of all the services, as well as selected civilians. The Bureau of Yards and Docks is anxious that as many navy personnel as possible, both regular and reserve officer and civilian, attend the school.

The course is designed to provide students with enough information to enable them to prepare disaster plans for their communities. Part One is concerned with the four basic types of damage resulting from disaster: (1) Blast and pressure effect, (2) fire, (3) water, and (4) contamination.

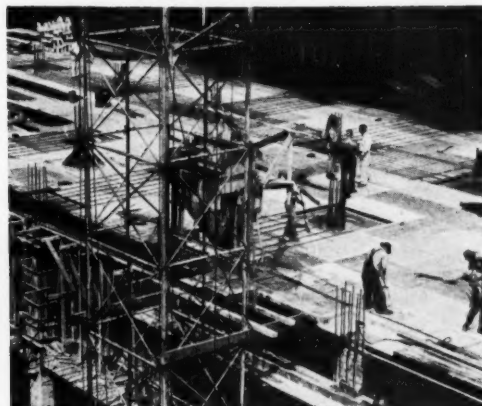
Part Two gives the planner a vocabulary and an introduction to the engineering problems connected with operational requirements.

Part Three develops the over-all plan for disaster relief.

Civil Engineer Corps officers should apply for the course through their district commandants. Others should write direct to: Civil Engineer Corps Officers School, Port Hueneme, Calif. Credit for active duty and toward retirement is given for attendance.

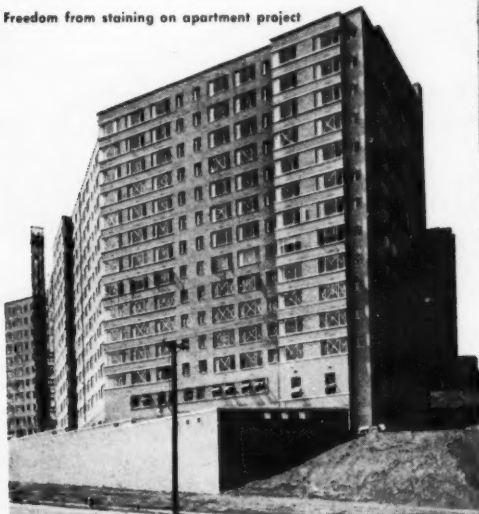


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THE CONSTRUCTOR, JULY 1951

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» THE LITTLE red schoolhouse, overcrowded and obsolete, has been a topic of serious concern to the nation for years. Now, the bulge of war-born youngsters threatens to split the contracted system at its seams. The physical plant situation, in spite of post-war construction, is still appalling to school officials.

Twenty percent of the city school buildings in use today are from 50 to 80 years old. They have seen a great number of Presidents come and go; they have served through the duration of several American wars; three generations have studied under their sagging roofs.

Phenomenal Enrollment Rise Ahead

It is not only the replacement of this 20% that calls for new construction, but the addition of another 50% to absorb the swelling tide of children now invading the system. Since 1946, enrollment has risen approximately from 26 million to 30 million. In that period, about 100,000 new classrooms were built—less than enough to meet that increase and normal replacement, to say nothing about meeting the unprecedented rise ahead when enrollment

All statistics quoted are only for schools on the elementary and secondary levels, except in the section devoted to colleges, or unless specifically stated otherwise.

School Construction Deficit Poses Critical Problem for Nation

- 20-Year Lag Showing Up as Enrollments Snowball
- \$13.5 Billion Quoted as Need in Next Nine Years
- Government Provides for Priorities in Controls

ment will go well over 37 million, or a 28% gain in the next nine years.

That will call for 270,000 classrooms (162,000 of which are needed before 1955) just to take care of the increase. Another 150,000 will be needed to replace the "firetraps and other school structures which should be abandoned." The Office of Education adds another 100,000 for kindergartens, community colleges, and re-organized school districts. The bill will come to an estimated \$13.5 billion.

Construction Forced Behind

School construction has waited in line for 20 years. For one thing, the depression hit new building decisively. The average amount spent per child enrolled dropped from a \$15 annual average in 1922-1928 to \$2.24 in 1934. That amount began to creep upward in the late '30's, but the defense effort chopped it down again. There was little building during World War II.

The postwar era saw communities

postponing construction in fruitless quest of the day when building shortages would be over and costs go down.

Conference Set on Atomic Lab Design—Page 106
Producers' Council, A.G.C. Form
Joint Committee —Page 155

The almost \$20 annual expenditure per child in 1945-50 bought actually only two-thirds the building which the \$15 1922-28 average had, considering the inflated dollar.

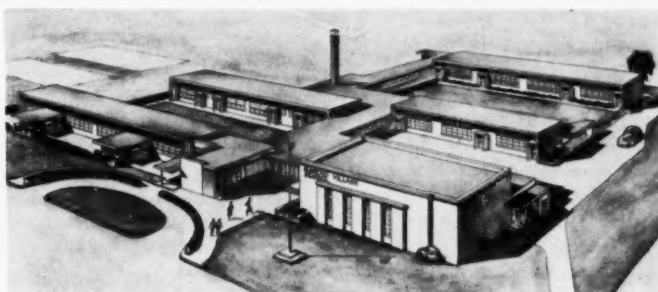
Although 35,000 to 40,000 classrooms were built in 1950, at a cost of nearly \$1 billion, they did not fill the need of normal increase. The first two months of 1951 have presented a fairer picture. School construction was up 46% over the same period of 1950. But that was before controls.

Today, the 20-year lag in school construction has reached a three-sided dilemma. The school community, saddled with ancient buildings and confronted by an abnormally large crop of students, finds its best intentions threatened by a national emergency. The question now is whether controls and regulations and shortages will halt the brief rise seen in the early months of this year, and stretch the 20-year lag into a 30-year deficit.

Federal Officials Recognize Need

Earl J. McGrath, U. S. Commissioner of Education, hopes not. In a speech last April, he said, "Some people reason that we ought to delay building any more schools until the emergency ends. This proposal is not in the national interest. We delayed in the '30's because we had a depression; we delayed in the '40's because of the war; if we delay in the '50's for any reason except national survival we will not be acting wisely. The school system will be irreparably damaged. In my judgment we can carry on the activities of mobilization and at the same time provide for the educational needs of our children."

Charles E. Wilson, Office of Defense



Rancho Village School Typical Answer To Nation's Building Needs

The Rancho Village Elementary School is a typical example of the type of school construction that the pressing needs of the school community demand and that modern education practices recommend. At a total construction, land, and equipment cost of \$394,124, Oklahoma City got this 16-classroom building, designed to house 500 students. The popular single story plan was adopted because it is supposedly safer, cheaper, eliminates stairs, and allows easier expansion. Playgrounds are readily accessible to classrooms which have many built-in features and are equipped with movable furniture. Each classroom has bilateral lighting. Contractor on the job, Dunning Construction Co., A.G.C., Oklahoma City, has shared in the applause rating the school as one of the nation's finest for the price.

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Monotube Foundation Piles

Mobilization, has recognized that "the need of eliminating overcrowding of schools and of providing adequate educational equipment" must have a chance in the struggle for materials.

Accordingly, 20 persons were assigned to study "the over-all supply and construction needs with schools and manufacturers and work out a coordinated program of priorities and ratings with the NPA." A few weeks later, the National Production Authority delegated permission to the U. S. Office of Education to receive, examine and act on applications for critical materials and to continue to give "spot assistance" to hardship cases. It was also authorized to process requests for "end products," such as supplies and equipment for schools.

The Office of Education inherited a backlog of 150 applications from NPA, representing an estimated dollar volume of \$50 million. By the middle of June, it was receiving requests at the rate of 75 a week.

The NPA had set aside an allotment of critical materials for June that consisted of 24,869 short tons of steel, 184,000 pounds of copper and 2,500 pounds of aluminum. This was admittedly "50% of the estimated need."

Later last month, allocations were made to schools and libraries for the third quarter. Substantially larger amounts of the critical metals were provided: 100,000 tons of carbon steel, 80,000 pounds of stainless steel, 325 tons of alloy steel, and 600,000 pounds of copper. Aluminum will be parceled out as need demands.

Other Relief Measures Passed

In addition, an amendment to M-47 removed the restriction on use of iron and steel in the manufacture of desks and seats for classroom use, thus removing another obstacle in the way of school planning.

Another order prohibiting gymnasiums was relaxed to allow construction of physical education facilities and to prohibit only arrangements for spectators.

Congress Allots Building Funds

In another special area, school construction is being encouraged and Congress has appropriated money to support it. These are the projects in "federally-affected" areas, where defense plants and military bases have drawn an increase in population and the community is receiving aid to accommodate the school children. An original \$46.5 million grant has been

strengthened with another \$50 million appropriated by Congress and signed by the President on June 2. The Office of Education is requesting \$50 million more in its 1952 budget. None of these amounts approach the \$380 million entitlement indicated by the 900 applications received thus far from "affected areas."

Construction on the college level, although not yet adequate to meet the enrollment anticipated in a few years, is picking up. The January issue of *Construction and Building Materials*, a publication of the National Production Authority, stated, "According to the best available estimate of the 1950 rate of public nonresidential construction activity at higher educational institutions (about \$160 million) the current annual construction volume would need to be virtually doubled in order to fulfill the estimated \$3 billion of needed expenditure at this level by 1960."

College Construction Gaining Now

However, Dr. Ernest V. Hollis, chief of college administration, Office of Education, said last month that colleges and universities have underway 678 projects involving 950 buildings which range in magnitude from a small home economics practice room to a University of California medical center, requiring 10,000 tons of steel.

Top priority for metal is being given

colleges, also, which will get 31.15% of the third quarter allocations quoted above. Dr. Hollis reported that applications for new projects are reaching his office at the rate of about 25 a week. If consideration continues to be given colleges and universities, construction in that field this year may well exceed that of 1950. The enrollment wave will reach institutions of higher learning about 1960.

Situation Considered Hopeful

The international situation and the newness of the whole controls program does not encourage a forecast of what will happen to the pressing need for continued school construction. Delegation of authority from NPA to the Office of Education, which has conducted surveys of school needs and is acquainted with the problem, may be encouraging. Relaxation of some original regulations and assertions by officials involved that school construction must go on also may be looked upon with hope. Commissioner of Education Earl J. McGrath, in whose office now lies the fate of many school projects, views their need as of unqualified urgency. In his annual report to Congress he said, "In an international emergency, expenditures for many things can legitimately be reduced or postponed, but education is not one of them."

(Continued on page 67)

Agency Aided in School Materials Survey

• B.R.A.B., A.I.A., A.G.C., and Others Cooperate in Appraisal

» ANOTHER potential stumbling-block in the nation's school construction program has been removed through the cooperative efforts of a number of building organizations.

Recently the U. S. Office of Education found itself baffled when it came to putting the school construction needs in terms of tons and pounds of the critical materials it was requesting from the National Production Authority. The educators knew how many children would have to be housed and approximately how many classrooms would be needed, but there was no data available that would enable them to determine easily how much steel, aluminum and copper their construction would require.

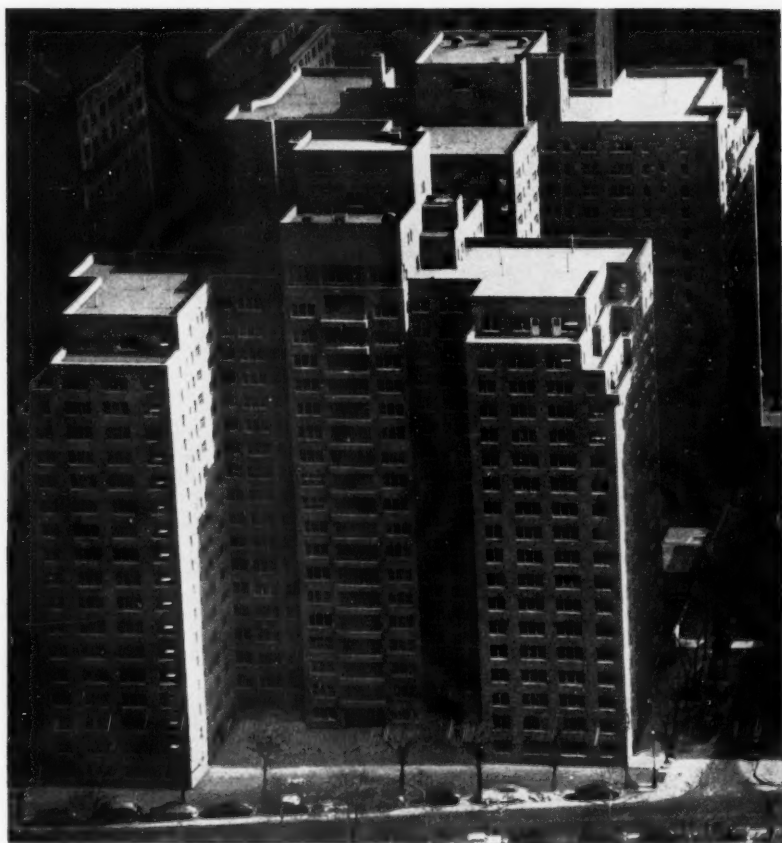
Eventually, through the American Institute of Architects, a request for assistance reached the Building Research Advisory Board in Washington,

D. C. Those two organizations, in turn, enlisted the aid of The Associated General Contractors of America, the Producers' Council, Inc., The American Association of School Administrators and the Liaison Committee of Mechanical Specialty Contracting Industries. These groups formed a survey committee to determine the materials requirements of the Office of Education's school construction needs.

Other organizations, particularly manufacturers' associations, came forward to assist in the first step, a survey of representative building plans. From a collection of such plans, the committee hopes to be able to determine the Office of Education's real materials needs, and in turn, NPA will receive an estimate based on fact.

W. A. Snow, A.G.C. Building Contractors' Division manager, represents A.G.C. on the committee.

Schwab House, 651-family, 2200-room apartment building in New York City. Builder and Owner: 11 Riverside Drive Corp., Julius Perlinder, President; Renting and Managing Agents: Harbert Charles & Co., Inc.; Architect: Sylvan Bien, New York; Structural Engineers: Weinberger & Weisbach, New York. Steel framework was fabricated and erected by Bethlehem.



Schwab House

High above the Hudson River in New York City stands Schwab House, an 18-story apartment building named for the late Charles M. Schwab, long recognized as the leader of the steel industry, and the founder of Bethlehem Steel.

Schwab House occupies the site of the former Schwab mansion, which for years was one of New York's landmarks. The structure is bounded by Riverside Drive, West

End Avenue, West Seventy-third and Seventy-fourth Streets, and commands a sweeping view of the river, and of the busy West Side Express Highway.

Schwab House exemplifies modern living at its best. It has facilities for 651 families. It contains 2200 bright, cheerful rooms, and its apartment units vary in size from 1½ rooms to 5½ rooms. The structure includes penthouse apart-

ments, terraces, restaurant, and two dance lounges. Its basement garage can accommodate 200 automobiles. It is serviced by a bank of 6 high-speed, gearless elevators.

The exterior of Schwab House is done tastefully in red brick and limestone, with large aluminum-framed windows, and covers a steel framework weighing 5322 tons, which was fabricated and erected by Bethlehem.

BETHLEHEM STEEL COMPANY, BETHLEHEM, PA.

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FABRICATED STEEL CONSTRUCTION



(Continued from page 65)

Supplies Will Be Available

More recently, on the occasion of announcing the allocations of critical materials to his office, the commissioner opened the door for legitimate school projects. He urged school people to "request assistance for only the essential needs of education, and to make resources stretch as far as possible." If this were done, he continued, specific construction permits can be granted "with the assurance that the necessary supplies will be made available through the Controlled Materials Plan."

NOTE: Since the National Production Authority has delegated authority to the Office of Education to consider all applications for construction of schools, colleges and libraries, as well as for equipment to go into those buildings, these officials have been named to act for the Office of Education, Federal Security Agency, Washington 25, D. C.:

Elementary and secondary schools—Dr. N. E. Viles, specialist for school plant management.

Colleges and universities—Dr. Ernest V. Hollis, chief of college administration.

Public libraries—Dr. Ralph M. Dunbar, chief, services to libraries section.

Schools in "federally-affected" areas—Dr. E. L. Lindeman, director, school assistance in federally-affected areas.

States Study School Plans

A vast, intensive survey of school construction needs and plans throughout the nation is now getting underway in most of the states. Under the provisions of Public Law 815, the federal government is organizing the comprehensive appraisal and aiding the states, both with funds and technical assistance, to establish their educational needs.

Already, thirty-nine states have filed application for monetary help from the federal government, which will be granted in amount of one-half the total expended by the state.

The inventory, when complete, will provide information necessary for discussions on federal aid to education. A progress report will be tendered to Congress sometime in December by the Office of Education.

Hospital Building and Controls

By George Bugbee

Executive Director, The American Hospital Association



Mr. Bugbee

» IN THIS nation's present half war and total defense economy the hospital has assumed new significance as the focal point of community health. Not only must today's hospital care for the sick and injured, but it must be prepared, if disaster strikes, to care for large segments of the civilian population. Then, it becomes most vital in its role of restoring broken bodies. The American Hospital Association considers the place of the individual hospital to be second to no other community agency in guarding the health of every citizen—for now and tomorrow.

Between 1929 and World War II there was little hospital construction in this country. During World War II the federal government built a number of small community hospitals in defense areas but there was no expansion nationwide of the hospital plant in terms of replacement of out-worn facilities or erection of new buildings to serve our growing population.

Federal Aid Beneficial

In 1946 the Congress passed the Hill-Burton Act by which the federal government offered planning and financial aid to communities to help build new hospitals. This act was sponsored by The American Hospital Association to implement the recommendations of a national Commission on Hospital Care. This commission

had determined after exhaustive surveys that the nation needed a minimum of 900,000 new hospital beds on a basis of 4.5 beds per thousand population. In the past five years since federal aid has been available for new hospital construction approximately 75,000 new hospital beds have been built into some 1500 new construction projects. A notable number of these have been replacements of out-worn or outmoded structures so there has been only a fractional gain on the estimated need of 900,000 new beds.

One of the most important advantages of this program is that it requires every state to plan objectively for placing additional hospital beds in areas where they are most needed. Besides requiring a maximum of state responsibility, Hill-Burton requires community participation and has resulted in great advances in hospital architecture.

A.H.A. Presents Needs

The American Hospital Association has offered testimony to the Congress each year when appropriations for hospital construction have been under discussion. An excerpt from recent testimony emphasizes the need for continued federal support of local construction:

"—it must be borne in mind that the change in the value of the dollar has materially affected the number of hospital beds that can be constructed—this is not an everyday maintenance program—it is a major effort on the part of the federal government to stimulate local interest—

"—it is in itself an emergency program, calculated to meet one of the very important health needs of the country.

"—in addition to the implication of hospital beds in the civil defense program, there is the long term value in health which has even more importance at a time when we are trying to keep the entire working force busily engaged."

All hospital construction, whether aided by federal funds or not is faced with the vital problem of securing scarce building materials. The American Hospital Association has pre-

sented the needs for continued building programs to the new control agencies of government with encouraging results. Only this month a delegation of authority to the U. S. Public Health Service from the Defense Production Administration permits recognition of essentiality of new hospitals through the granting of allocations of materials under the controlled materials plan and priority assistance for securing other scarce building materials.

PHS Administers Materials

The first step in this program of recognition of hospital construction essentiality was taken early this year when the U. S. Public Health Service was named as "claimant agency" for civilian health needs. Empowered by the National Production Authority to endorse priority requests to break construction "bottlenecks" this agency has reported more than 1200 cases of

assistance to hospitals in getting needed materials. Mr. Charles Lavin, Chief of The Division of Civilian Health Requirements of PHS recently stated, "The DPA 'set aside' of raw materials for June, according to our estimates, will satisfy most of the hardship cases in current hospital and health facility construction.—This June program, preceding the establishment on July 1 of the controlled materials plan, known as CMP, provides priority ratings for hardship cases among hospital construction projects. A 'set aside' program for steel, copper and aluminum for July, August and September has already been approved for CMP operations.

"Hospital and health facility administrators, and their contractors, may apply during this interim period for priority ratings on orders for urgently needed building materials which they, or other contractors, cannot secure through normal sources of supply, including iron, steel, copper, aluminum and copper base alloys, as well as components, such as sterilizers, operating equipment, boilers, elevators and heating units."

Third Quarter Allocations

A recent (June 11, 1951) joint press release by DPA and the PHS announced the allocations of metals under CMP for the third quarter of 1951. The amounts approved for delivery during the quarter beginning July 1 are as follows:

Carbon Steel	75,000 tons
Alloy Steel	0 tons
Stainless Steel	95,000 pounds
Copper and Copper	
Base Alloy	4,600,000 pounds
Aluminum	550,000 pounds

In commenting on the allocations, Dr. Leonard A. Scheele, Surgeon General, Public Health Service, said:

"The allocation of definite amounts of these basic materials for use in the construction of hospitals and other health facilities will be of great service to hospital authorities and contractors. It will enable them to plan with the definite assurance that the materials that they require will be available.

"Not all of our hospitals will get all of the materials they want. Essential as new hospital construction is, however, we must recognize that our needs in this area must be thought of in relationship to the

(Continued on page 73)

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Water-gain and segregation are minimized by the air-entraining feature of Duraplastic. The finished concrete is thus fortified against the effects of freezing-thawing weather and the surface appearance is improved.



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THE CONSTRUCTOR, JULY 1951



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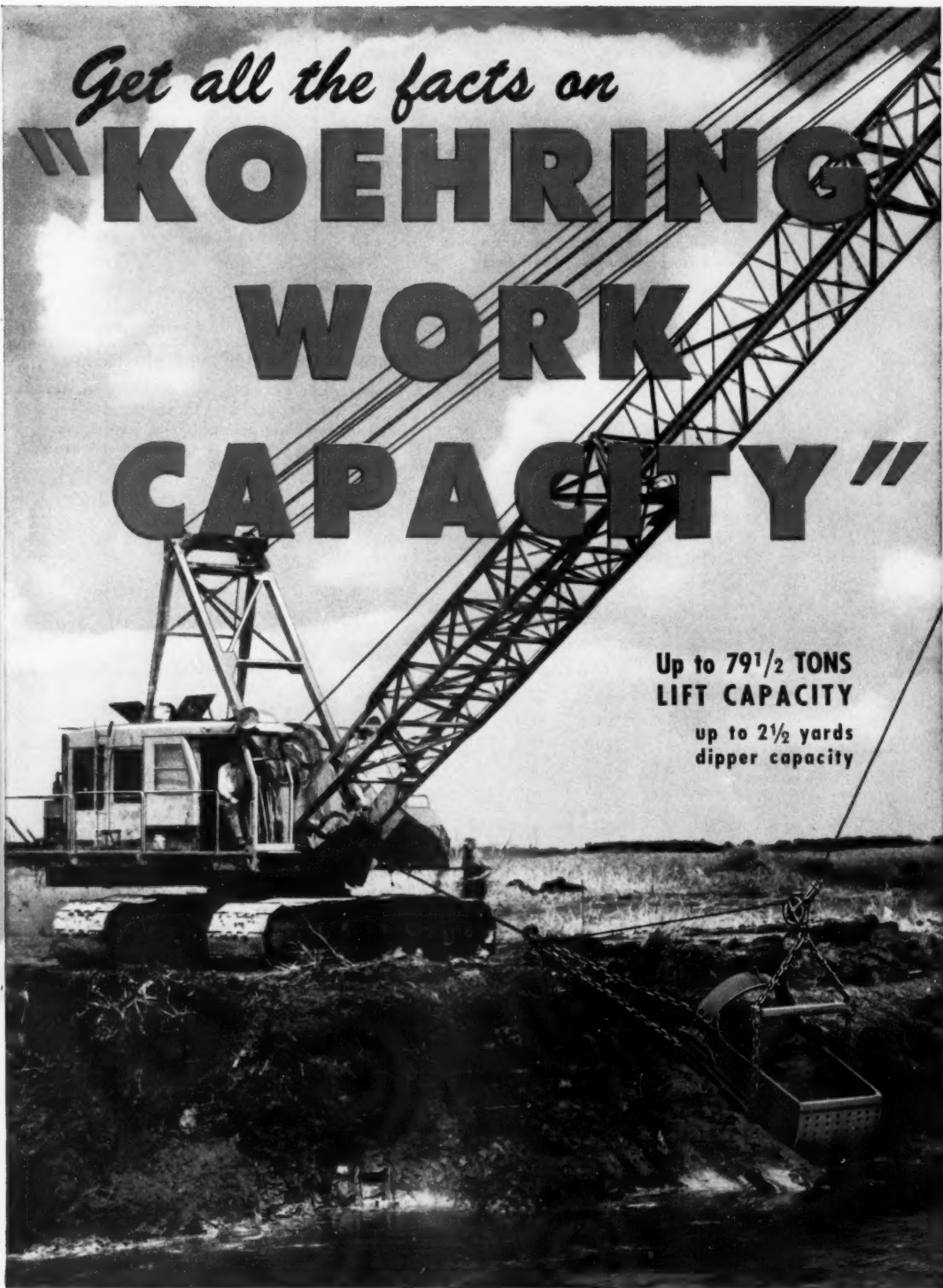
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Boston, Chicago, Dayton, Kansas City,
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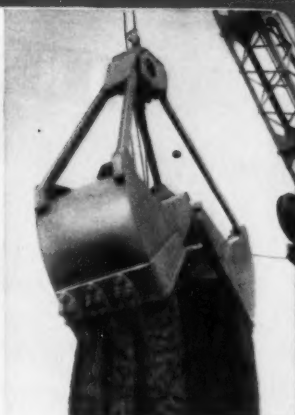
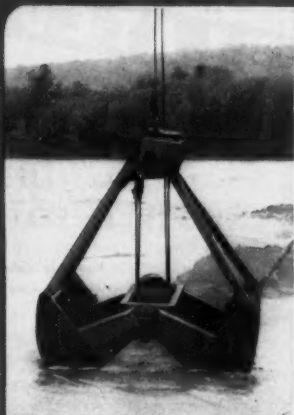


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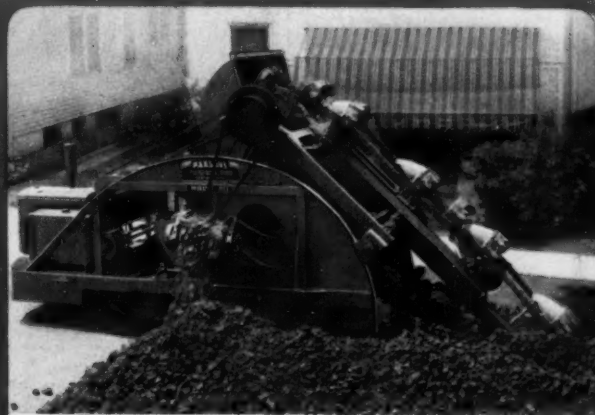
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produce from 6.5" to 13'-10" of clean-cut trench per minute, at widths from 16 to 36" . . . depths up to 8'-6". With full reverse of all operations, this Model 221 makes vertical set-ins, undercuts sidewalks, sewers, old mains. Flexibility is further increased with shiftable boom, which digs behind either crawler . . . 1-minute power-shift conveyor for discharging right or left. Also check larger ladder-type models, and wheel-type Trenchliner. See your local Parsons distributor, or write us direct for illustrated bulletins.

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Mahon Insulated Metal Walls Employed in the Construction of a New Powerhouse for Fairbanks-Morse & Co., Beloit, Wisconsin. Stone & Webster, Architects & Contractors.

MAHON

(Continued from page 68)

needs of our armed forces and our expanding defense economy. Intelligent planning of projects, the postponement of nonessential ones, and the conservation of critical materials, such as the use of reinforced concrete instead of structural steel frames, whenever feasible, should make it possible for this allocation to provide for essential needs in the immediate future."

Construction Priority High

Hospital construction has a high priority in the present emergency.

We believe our nation needs hospital beds as much as it needs automobiles, refrigerators and television sets.

The American Hospital Association with all of its member hospitals in every state has actively cooperated in the development of these programs of priority assistance for construction. We look confidently ahead to a steady and strong improvement of the hospitals of this nation to serve us all in whatever emergency.

New Hat for Times Tower

Historic Times Tower on New York's Times Square has a new hat.

The old landmark has the same face but a brand-new modernistic cornice and parapet wall tops the tower, and the "Times" name stands out on all four sides in stainless steel letters lighted with white neon.

The old cornice had been deteriorating for years. Crowds passing by on the "Crossroads of the World" 26 stories below were in danger of being struck down by the elaborately shaped terra-cotta blocks. Wind, water, frost and ice had opened up mortar joints since the original construction in 1905 and the steel bar anchors were fast corroding.

No one knew at first what to do about the design. Mr. Arthur Hays Sulzberger, publisher of the New York Times, insisted that the general Gothic design be preserved. Architect E. J. Kahn of Kahn & Jacobs, New York, was considering safety, long life, maintenance cost, and weather-resistance as well as tradition. The idea



of adding some kind of illumination or display into the reconstruction was tossed around, too.

What finally came out of the planning is the stainless steel headpiece in the picture above. Artkraft-Strauss built it. The Rheinstein Construction Co., A.G.C., New York, had the hazardous job of removing the old cornice which had some blocks weighing as much as 500 pounds. Consulting Engineer Fred Severud was advisor.

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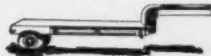
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Wherever they operate . . . in whatever phase of the national economy . . . Mack trucks have one thing in common. Being Macks—they're built to outlast them all—to give *long-lasting* economy and reliability. That's a basic Mack advantage, vitally important during periods of uncertainty when replacements may be difficult to obtain.

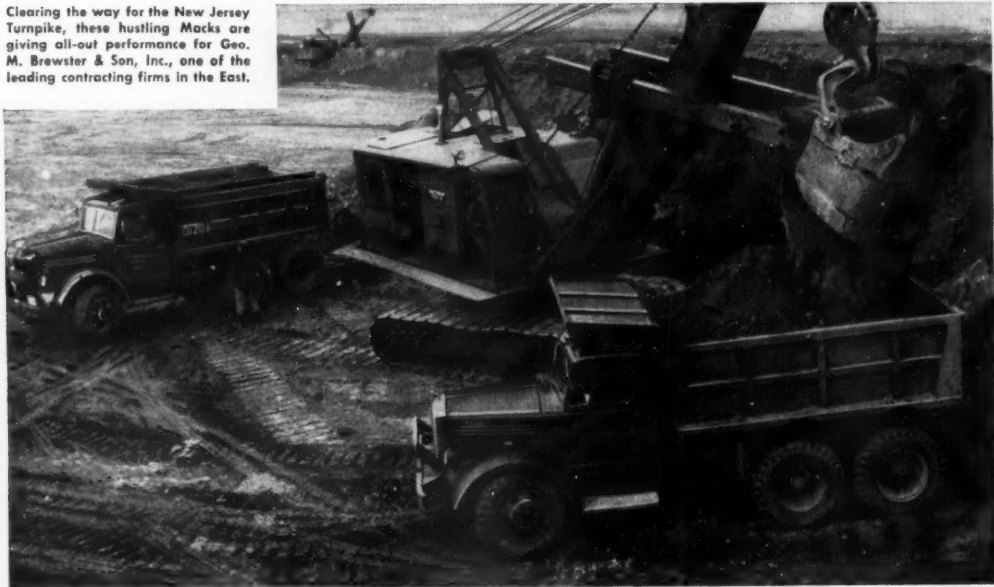
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Mack Trucks, Empire State Bldg., New York 1, New York. Factories at Allentown, Pa.; Plainfield, N.J.; Long Island City, N.Y. Factory branches and distributors in all principal cities for service and parts. In Canada: Mack Trucks of Canada, Ltd.

Clearing the way for the New Jersey Turnpike, these hustling Macks are giving all-out performance for Geo. M. Brewster & Son, Inc., one of the leading contracting firms in the East.



» **CONSTRUCTION** of the vast Arnold Engineering Development Center, a facility which will provide testing and evaluation of supersonic aircraft, guided missiles and aircraft engines of all types, is now moving into high gear under the direction of Lt. Col. Hugh M. Arnold, district engineer of the Tullahoma District, Corps of Engineers.

This gigantic research center in south central Tennessee near the city of Tullahoma, is named for the late General H. H. "Hap" Arnold, World War II Commander of the U. S. Air Forces, and will cost \$157,500,000.

The Arnold Center will be operated by the U. S. Air Force but will also be available for the use of other branches of the Armed Forces, private industry, and institutions performing aircraft and missile research.

The enormous amount of electric energy and cooling water required for the successful operation of the center necessitated its location near these resources, and for that reason, among others, the Air Force designated a site in the Tullahoma area. Ample electricity is available and the Elk River will provide a reservoir to adequately supply the cooling and sanitary water requirements.

2800 Construction Men Required

There are over 1500 contractor's workers now employed on the project and it is expected that the number of workers will increase to about 2800 by the end of July. Actual construction operations began in March, 1950, after approximately \$30 million in contracts had been awarded.

The currently authorized program provides for the construction of three major test facilities and all of their supporting services and utilities.

The High Altitude Engine Test Facility, the first testing unit to be constructed, is presently underway. Construction of the buildings and foundations, a \$4 million contract, was started in October, 1950, by the joint contracting firms of Patti-Massman-MacDonald, A.G.C., of Kansas City and St. Louis. This facility will make possible the testing of turbo-jet and ram-jet power plants under simulated flight conditions and altitudes, up to as high as 80,000 feet. The jet engine test plant is being built around a much modernized and expanded German plant which was acquired after World War II. Under a cost-plus-a-fixed-fee contract amounting to \$3.1 million, the Rust Engineering Com-

Mammoth Testing Plant Under Construction in Tennessee

- U. S. Air Force Building Aircraft Research Center
- Will Develop Jet Engines and Guided Missiles
- Dam, Railroad and Airfield Included in Layout

pany, A.G.C., Birmingham, Alabama, is cleaning and reconditioning the German equipment and also is installing all test plant and electrical equipment for this facility.

Hypersonic Test Facilities Planned

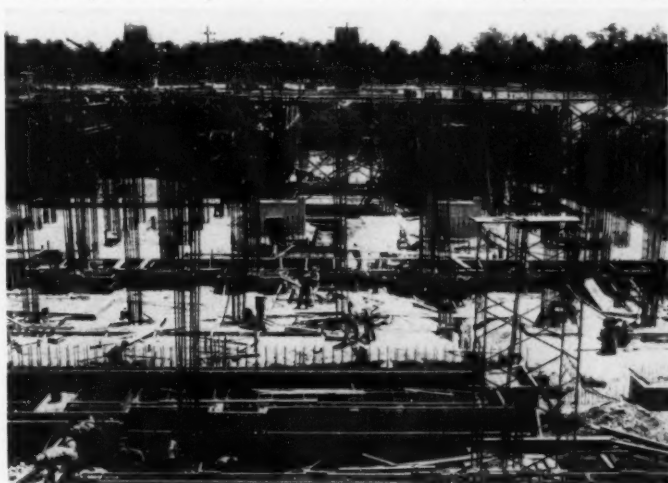
Of the three major testing facilities, the second priority item is a Gas Dynamics Facility, still in the design stages, although much of its equipment is on order. This facility will be able to test developmental models of aircraft and guided missiles and their components through the supersonic and into the hypersonic (more than 5 times the speed of sound) ranges. It will employ an extremely flexible compressor system driven by electric motors totaling 90,000 horsepower. The major feature of this unit will be its usefulness from the standpoint of air development of very high speed aircraft. Construction of this building is expected to begin this summer.

The third principal test unit scheduled for construction is the Propulsion Wind Tunnel. It is being designed for developmental testing of full scale,

operating ram-jet, and turbo-jet power plants as they may be installed in missiles and aircraft, as well as full scale components of aircraft and missiles. Wind speeds attained in this tunnel extend from the high subsonic into the supersonic (above the speed of sound) speed range. Housing the largest piece of rotating equipment of its kind ever constructed, it will require over 200,000 horsepower to operate. This wind tunnel will require about 100,000 gallons of cooling water per minute, which will be pumped from the reservoir formed by the Elk River dam. This facility still remains in the design stage, although construction of the test building is scheduled to begin in August.

Elk River Dam Under Contract

Among the major auxiliary utilities to be constructed is the Elk River water supply dam, costing \$3.8 million, which is under contract to the Arundel Corporation, A.G.C., Baltimore, and L. E. Dixon Company, A.G.C., San Gabriel, California. The



Progress on Engine Testing Facility Building as of May 15

dam will be approximately 90 feet high at the center valley section and about 3,000 feet long. The area of the reservoir will approximate some 5,000 acres with a storage capacity of approximately 100,000 acre feet. The lake formed behind the dam will be about 12 miles in length with some 75 miles of shoreline. Although construction is scheduled for completion about July 1, 1952, impoundment of water is expected to begin during the latter part of September 1951. Construction of this feature is in full swing. Elk River has been diverted around the spillway section and all excavation is approximately 50 percent complete. The rate of placing of embankment has been accelerated and grouting in the two stages of curtain along the axis of the dam is continuing. The contractor has started pouring concrete in the non-overflow section of the dam and excavation for the stilling basin is complete. Construction of the dam as a whole is approximately 20 percent complete.

The first building under construction at the air development center is the large shipping and receiving warehouse, costing \$682,000 and under contract to the C. F. Rule Construction Company, A.G.C., Nashville.

This building, being constructed of steel framing and brick siding, is almost complete.

Railroad in Operation Already

Of prime importance was the early completion of the access railroad from Tullahoma to the Arnold Center, including its extension to the Engine

Test Facility. This railroad, about nine miles in length and costing approximately \$560,000, was constructed by the firm of McDowell and McDowell, A.G.C., Nashville. Construction material and equipment in limited amounts are now being transported over it. The McDowell firm is rapidly finishing a railroad spur to the shipping and receiving warehouse.

The State of Tennessee has constructed a concrete access highway 24 feet wide from the old Camp Forrest cantonment area to the Arnold Center, and plans to extend it east to U. S. Highway No. 41.

Under construction by the Maxey Construction Company, A.G.C., Lubbock, Texas, is the administration and engineering building, which will provide headquarters for the Air Engineering Development Division, under the command of Major General Franklin O. Carroll, U.S.A.F. This brick and sandstone building, costing \$1,920,000, will be completed April 1, 1952. The Texas firm has just begun work on a \$1,750,000 instrument and model shop.

The Maxey firm also has a \$268,000 contract for the electrical distribution control building, which, with the installation of equipment and other materials, will cost approximately \$2 million. The building is expected to be complete in August, while installation of equipment and materials will take the rest of the year.

Under the first phase construction program, a \$694,000 installations maintenance shop will be completed by the Rule company in October.

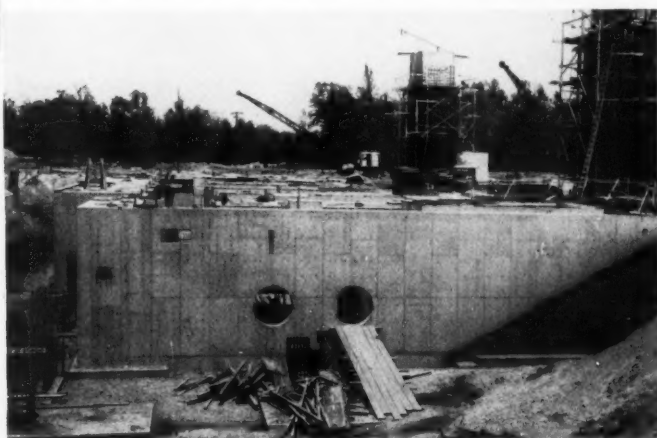
General Utilities Contract Awarded

A general utilities contract, amounting to approximately \$5 million, was awarded in late June to the Hardaway Construction Company, A.G.C., Atlanta. This work consists of constructing roads and streets (except paving), interior railroads, storm drainage, sewers, sanitary water mains, cooling water mains and access road, steam mains, communications systems, cooling water discharge, and completion of the small amount of fencing. All work on this contract is scheduled to be complete and in operation late in November.

The paving of streets and roads, costing approximately \$800,000, will be accomplished by the firm of Foster and Creighton, A.G.C., Nashville. Grading work on this item has commenced, and 15,000 cy. of material was moved to complete 34% of the grading on two streets.

The cooling water supply system from Elk River reservoir to the test facilities will consist of: A primary pumping plant located on the north side of Elk River reservoir, which will be required to raise the water approximately 150 feet in elevation to a secondary reservoir located near the test facilities; a water supply line from the primary pumping station to the AEDC, about 3 miles in length, consisting of a high pressure steel pipe 60 inches in diameter and served by an access road; and a secondary reservoir constructed of concrete lined earth fill, with an active storage capacity of approximately 14 million gallons. Contiguous to this reservoir, a secondary or distributing pumping station with an initial installment of 150,000 gpm, consisting of six 25,000 gpm pumps, will be constructed. The cooling water, after it has completed its job of cooling the testing facilities, will be returned to the Elk River reservoir by way of a discharge channel (which, as mentioned before, is under construction by Hardaway Construction Company), and the natural channel of Rollins Creek which enters Elk River reservoir immediately above the dam.

A contract amounting to approximately \$970,000 for construction of the primary intake and pumping plant structures was awarded in March to the Charles H. Tompkins Company, A.G.C., Washington, D. C. Construction of the structures and installation of the equipment is scheduled to be complete and operative by December

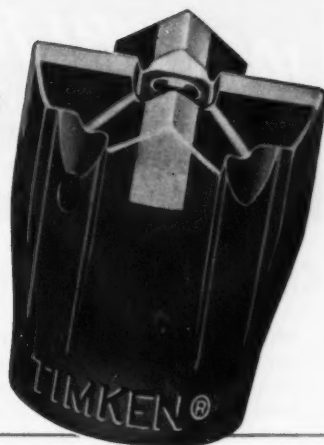


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Which type of rock bit is the most efficient and economical for your particular job? You're sure of getting an impartial, authoritative recommendation from the Timken Company. We're the only manufacturer who makes *all three* types of rock bits:

- ① **MULTI-USE**—gives lowest cost per foot of hole when full increment of drill steel can be drilled and when control and reconditioning of bits are correct.
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When choosing mechanized equipment for the construction industry, pay special attention to the power plant. That's good advice at any time, and extra good today. The manpower shortage has hammered home the need for dependable machines—and even the best is only as dependable as its source of power . . . The presence of a Red Seal engine in vehicle or specialized equipment is an added assurance of user satisfaction over the years, for Continental Red Seal is truly specialized power. Continental's policy ever since 1902 has been to build each engine expressly for its work. Red Seal commercial models, ranging from $\frac{3}{4}$ to 270 horsepower, are built to more than 1,000 different specifications. And every model is engineered as an integral part of the equipment which it powers . . . You can place full confidence in the product of the manufacturer who has chosen Continental Red Seal as the heart of his machine.



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 RED SEAL PARTS AVAILABLE FROM COAST TO COAST

Continental Motors Corporation

MUSKEGON, MICHIGAN

HEAVY • RAILROAD

1. The access road from the primary pumping station to the secondary reservoir is being constructed by the Hardaway firm and is part of the general utilities contract. The contract for the secondary reservoir and pumping station was awarded in May to the Tompkins concern at \$975,000. Including pumps, motors, controls and equipment, the total initial cost of this feature amounts to approximately \$1,225,000.

The cooling water distribution system is part of the general utilities contract.

Among the major auxiliary service buildings under construction is the fire, police, and communications building. Costing \$560,000, it was awarded in April to the Rule firm and is scheduled to be completed next March.

In April another contract was awarded to Rule for construction of the steam generating plant. This building, with an installed capacity of 200,000 pounds per hour and costing about \$1.4 million, is well under way with the foundation excavation complete. Completion of the building and installation of the equipment is scheduled for March.

Airfield Being Planned

The Tullahoma District is preparing plans for an airfield with an airstrip approximately 10,000 feet long and 200 feet wide. Taxiways will be 150 feet wide and the parking apron 2,000 feet wide. Although the schedule for construction has not been formulated, clearing of 740 acres at \$178,000 is 40% complete.

A contract for about \$1.5 million for the water treatment and sewage disposal plants and the secondary reservoir and pumping plant was awarded in May to the Tompkins company which expects completion by the middle of November.

The test fuel storage and distribution system contract for approximately \$400,000 was awarded to Patti-Massman-MacDonald in May, and is due for completion February 15, 1952.

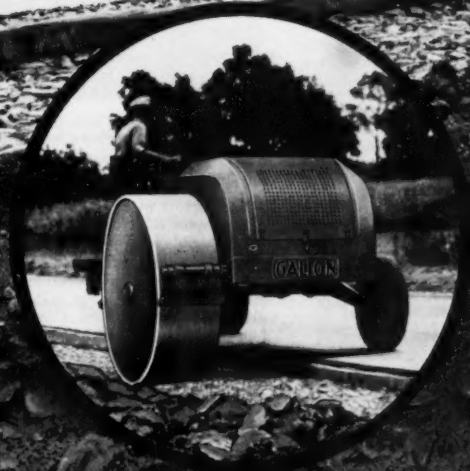
Although design is still in progress, construction will soon begin on the instrument and model shop estimated to cost about \$2 million. Design also is under way for the AEDC cafeteria, estimated to cost \$500,000. Final design is under way for an industrial dispensary, costing about \$140,000.

Other items slated for construction in the near future include a foundry, (Continued on page 81)

GALION

TRENCH ROLLER

SIMPLIFIES ROAD WIDENING JOBS



GALION — THE ORIGINAL

Galion originated the trench-type roller - - and is now the first to offer a completely new and improved design.

FEATURES

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- Adjusting and steering wheels travel on pavement.
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300,000 YARDS
**maintenance
 still too low
 to be figured**



Two of the eight Worthington Blue Brute Wagon Drills that broke cost records for Rock Construction Corporation. Note the amount of line drilling.



President Walt Dunham and Engineer A. Bruce Lattanzi in the company's Downsville Dam office.

Line drilling in blue stone is child's play to those Worthington Blue Brute Wagon Drills.

Rock Construction Corporation of Kingston, New York, working on the Downsville Dam weir and waste channel, got service out of eight wagon drills that constantly amazed them.

Walt Dunham, president, reported: "We have drilled as much as 700-800 feet per 8-hour day per machine. In 165 working days, the machines put out 300,000 cu yds with so little maintenance it can't be figured in cost per yard."

This job also used a number of Worthington Blue Brute Hand-Held Rock Drills. Says Mr. Dunham: "There has been absolutely no maintenance cost. Our operators like them better than anything they have ever used."



Worthington Blue Brute Rock Drill operating ahead of the wagons collaring hole for laying out line drilling.

Contractors everywhere know that a Worthington Blue Brute team—air compressor and tools—makes mincemeat out of even the toughest jobs. See your nearby Worthington distributor for a demonstration. Worthington Pump and Machinery Corporation, Construction Equipment Division, Dunellen, N. J.



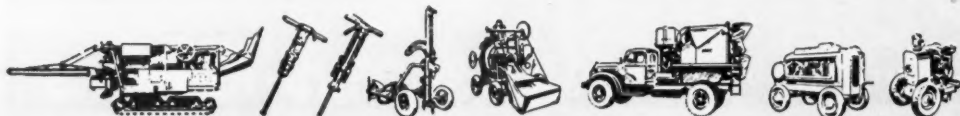
Two 500-hp Worthington Blue Brute Air Compressors supplying air for drills at the Downsville Dam.

WORTHINGTON

BUY BLUE BRUTES



H.1.5



IF IT'S A CONSTRUCTION JOB, IT'S A BLUE BRUTE JOB

HEAVY • RAILROAD

(Continued from page 78)

engine test facility shop and office building, automotive repair shop, and visiting officers quarters.

The land area required for the center is approximately 41,000 acres, and 633 acres have been acquired for the Elk River dam. Approximately 6,645 acres are being acquired for the cooling water reservoir area and 34,000 acres in the old Camp Forrest Area has been ceded to the federal government by Tennessee.

Formal dedication ceremonies of the AEDC were held on June 25, 1951. President Truman delivered the dedicatory address and numerous other military and civilian dignitaries participated in the program.

The date of the dedication was the first anniversary of the start of the Korean conflict and also the birthday of General Arnold, the center's namesake.

Lt. Col. Arnold has as his principal assistants Lt. Col. James E. Akans and Capt. Harvey C. Jones.

Bragdon Plans Retirement

Major General John S. Bragdon, Army Deputy Chief of Engineers, has requested retirement from active duty after 36 years of service in the Corps of Engineers, the Department of the Army announced recently.

General Bragdon, a veteran of both World Wars, was distinguished for his work on flood control projects in the East. After directing overseas construction during the last war, he was named Deputy Chief of Engineers in 1949. In that capacity he acted as chairman of the Board of Engineers for Rivers and Harbors, the senior review board for all civil works projects assigned to the Corps of Engineers. General Bragdon will be succeeded by Major General George J. Nold.

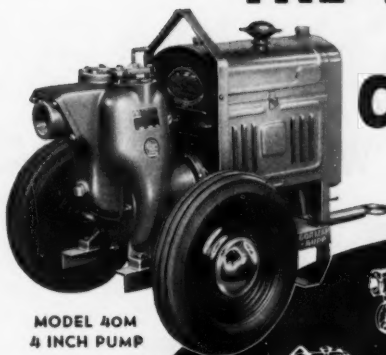
Shale Retort Contracted

Blaw-Knox Construction Company, A.G.C., Pittsburgh, has been awarded a \$333,870 contract for the design and construction of a demonstration-scale retort employing a new gas-combustion process for the continuous extraction of oil from shale.

If the retort, to be located at Rifle, Colorado, operates as expected, crude shale oil will be produced at a cost competitive with petroleum.

THE CONSTRUCTOR, JULY 1951

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Palisades Dam A Defense Job

The Palisades Dam, urgently needed to provide electric power for the growing defense needs of the Pacific Northwest, has been approved by Interior Secretary Chapman who recently recommended that appropriations be granted to commence construction.

Preconstruction work costing about \$3 million has already been completed on the Snake River project, located at Calamity Point in eastern Idaho. When finished, it will irrigate 650,000 acres of Upper Snake River Valley farm lands, for which water supplies are now inadequate.

The power plant, estimated to cost over \$76 million when completed in 1955, will have an installed capacity of 112,500 kilowatts and, in a median water year, will produce approximately 500 million kilowatt hours of electrical energy.

In recommending expeditious construction of the project, Clifford B. McManus, Defense Power Administrator, pointed out that local residential and commercial power loads, particularly in the Idaho Falls area, are growing rapidly, because of the Atomic Energy Commission's new construction program.

The Palisades Dam is a multiple-purpose reclamation project, including irrigation, power, flood control, recreation and fish and wild life benefits.

Corps Marks Anniversary

Acknowledging the 176th anniversary of the Corps of Engineers, H. E. Foreman, managing director of the A.G.C., sent the following to Major General Lewis A. Pick:

"The Associated General Contractors of America extends sincere congratulations to the U. S. Corps of Engineers on the 176th anniversary of the founding of this most important arm of the national defense organization and the construction civil functions of the government. All personnel of the Corps can be justifiably proud of the enviable record they have compiled during this period."

Since 1775, when Congress set up "one Chief Engineer of the Army and two assistants in a separate department" (total monthly pay for the three was \$100), the Corps has constructed defense projects all over the world and many civil projects at home.

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For the complete story on this history-making I-R Portable, and the new Ingersoll-Rand FM-3 Wagon Drill see your nearest Ingersoll-Rand representative—or write to our New York office.

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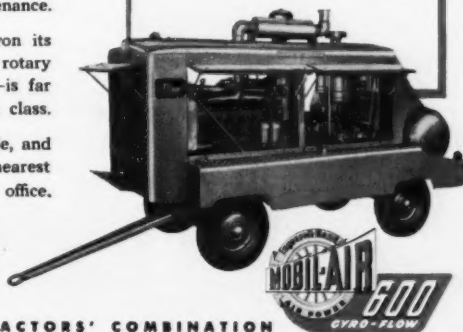
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Weight up to 27,000 lbs.



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Model 312—76 H.P. Diesel Engine—Weight up to 24,000 lbs.
Model 414 (not shown) same engine—Weight up to 21,800 lbs.



Model 312—70 H.P. Diesel Engine—Weight up to 19,820 lbs.
Model 305 (not shown)—50 H.P. Gas Engine—Wt. up to 19,500 lbs.



Model 261—31 H.P. Gasoline Engine—Weight up to 16,275 lbs.

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Pipeline Construction Booms As Natural Gas Customers Increase

» TOTAL pipeline mileage in the United States at the beginning of 1951 was approximately 460,000 with an additional 25,000 miles expected to be constructed this year by American firms both at home and abroad.

In 1950, more than 16,000 miles of projects were completed. Of this total, 10,623 miles were for natural gas, 3,214 for crude oil, and 2,444 for refined products. These lines range in size from two inches in diameter to 34 inches and cost an average of \$130,000 per mile.

Biggest boom in pipeline transportation has been in the natural gas industry which, between 1945 and 1950, has constructed or been authorized to build more than 26,000 miles of line. The largest customer area still to be touched is in New England. Current plans, which may be held up during the emergency, are to run lines as far north as Maine.

Petroleum and gas construction order—Page 32

Of the total fuel energy consumed in this country, natural gas now accounts for about 20 per cent, an expansion of over 20 per cent in this fuel in the last 25 years. In a 10-year period ending in 1954, more than \$6 billion is expected to have been invested in natural gas facilities.

Here are some of the major lines in the country, most of which stem from the gas-rich fields of central and southern Texas:

The Tennessee Gas Transmission Company, Houston, runs a 3,197-mile line whose main stem extends from the southern tip of Texas to Buffalo. Slowly curving through the southeastern states from the Rio Grande to New York City are the 1,832 miles of

line constructed for the Transcontinental Gas Pipe Line Corp. of Houston. Also linking Texas to New York is the mammoth 3,267-mile system of the Eastern Transmission Corp., Shreveport. Originating at El Paso, 4,861 miles of pipe of the El Paso Natural Gas Company sprawl west to Arizona and northeast to lower Lake Michigan at which point the line forks into northern Michigan and Wisconsin. Most extensive is the 7,966-mile spiderweb of pipe controlled by the Union Gas Pipeline Company of Shreveport, confined mostly to Texas and Louisiana.

The most amazing part of the pipeline's story is the continued rapid expansion of service in the face of almost insurmountable obstacles.

First, supplies of natural gas are uncertain. Though gas reserves are estimated to last only about 30 years, it is not uncommon for a large source of gas supply to suddenly become depleted. Second, natural gas, on a thermal unit basis, cannot compete with coal and has only a slight advantage over oil. However, gas, unlike these other types of fuel, requires no storage facilities and leaves no waste. Third, though the price of gas has decreased, the cost of line facilities has doubled since 1940.

Maintaining the natural gas industry will demand a continuous construction job of extending lines to new customers, and to new sources as the old ones become barren.

Through this 16-inch pipe, natural gas will supply Utica, New York, by next fall. The Niagara Mohawk Power Corporation's line connects to a trans-state line already in existence, which draws on vast fuel sources of south central United States.

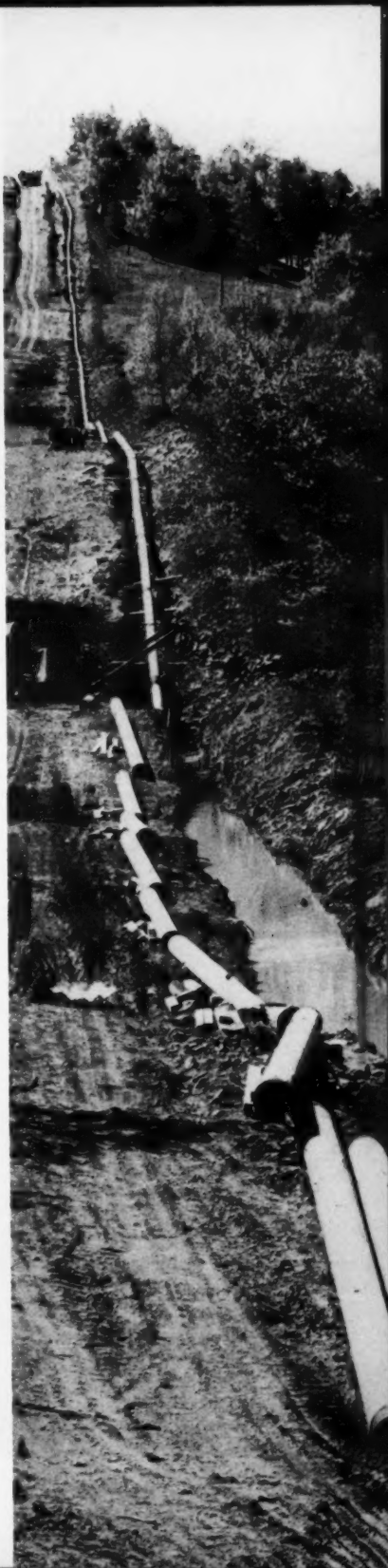
Texas--New York Line May Be Doubled

» THE longest single pipeline in the world isn't long enough.

Executives whose engineering genius resulted in the construction of Transcontinental Gas Pipe Line Corporation's 1,832 miles of line from Mercedes, Texas, to New York City are now seriously considering a 100 per cent looping of the world's longest single natural gas pipeline. If the

12,000 horsepower of each of the 19 compressor stations which dot the line at 80 mile intervals is doubled, the addition of a companion 30-inch line will increase the flow of gas from the present 534 million cubic feet daily to 1,068.

Construction of the line involved 15 pipeline contractors and was completed between May 29, 1948, when





Above: Stockpile of pipeline used in Transcontinental's Hudson River crossing. A push and pull system was used to lay the line in a channel ditch 27 feet deep and 50 feet wide. Crossing runs from Edgewater, New Jersey, to a Manhattan meter house near 134th Street, just west of Broadway.

Below: Merritt-Chapman & Scott displays skill in unique placement of 490-foot pipe on Harlem River bottom with three floating derricks operating in unison. One-inch wire cable straps supported the pipe, 30 inches in diameter, at 18 points along its length as it was dropped foot by foot into a trench 35 feet below the water's surface.



the Federal Power Commission certificate was granted, and January 16, 1951, when the valves were turned to supply New York with Texas natural gas.

During the summer of 1950, 14 main-line construction spreads were running simultaneously—possibly a record for one line.

The most difficult part of the construction operation was through the swampy lowlands of Louisiana and Georgia. Soil consistency was such that considerable pumping was necessary and backfill had to be brought in from points far off the line. Heavy equipment needed to lay the 30-inch pipe frequently caused the trench to cave, thus requiring the pipe-laying to follow ditch preparation immediately.

Rather than use more than the usual number of clamps for the 30-inch pipe which has unusual buoyancy, contractors dug ditches an extra 12 to 18 inches deep to hold down the line.

In spite of swamp difficulties, the average rate of pipe-laying was 3,500 feet per day during 1949. Where swampy conditions were worst, construction progressed at the rate of 2,400 feet per day.

The highest average rate of construction per day was 5,100 feet.

Texas to Manhattan

» WITH THE delicate precision of a puppeteer, three powerful floating derricks working in unison lowered a 568-foot long, 173-ton section of pipeline to the bottom of the Harlem River.

Thus, Merritt-Chapman & Scott Corporation, New York City, A.G.C., completed one of the last links in a line bringing natural gas from Texas to the Manhattan area. The Transcontinental Gas Pipeline Corporation's terminal point in the Hudson River now connects with several gas companies as far away as Nassau County.

Three 100-foot boom derricks were harnessed together in single file formation into a combined hull of 426 feet. Maintaining precise alignment they lifted the pipe from a dock on the Bronx side of the river and swung it in perfect unison to the opposite side. With uniform stress throughout, the pipe was then dropped a foot at a time into a trench 20 feet wide and 35 feet below low water level.

The pipe-laying operation was completed in six hours.

THE CONSTRUCTOR, JULY 1951

PIPELINES



Left, part of a large section of pipe, bent by high tide during Transcontinental Gas Pipeline Corporation's Hudson River crossing, is beached for repairs. Above, Allis-Chalmers' tractors put giant 30-inch pipe to bed at a point in the South during construction of same project. Below, Morrison Construction Company, A.G.C., Austin, defies severe working conditions while laying 30-inch pipe for Tennessee Gas Transmission Company near Springfield, Tennessee. Tractors are International TD-24 diesels equipped with new model Superior pipeboom.



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A valuable reference guide fully illustrated with tables, diagrams—pertinent facts and figures on all standard makes (all sections) of steel sheet piling, corrugated lightweight piling, pile hammers and pile extractors.

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Francis A. Conroy & Son, Philadelphia, Pa.
Franklin Contracting Company, Newark, N. J.
Graw Construction Company, Inc., New York, N. Y.
Jaggard Engineering Company, Westmont, N. J.
Linde-Griffith Construction Corporation, Newark, N. J.
Napp-Greco Company, Newark, N. J.
P. T. Cox Construction Company, New York, N. Y.
Peerless Construction Company, New York, N. Y.
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(An absorbing story of how good roads supporters, aware of the progressive obsolescence of their state's highway system, finally won a sound finance program by mustering public support which overrode a governor's veto. The Michigan Road Builders Association, A.G.C., is a member of the Michigan Good Roads Federation.)

» MAY 23, 1951, marked a signal victory for highway progress in Michigan. On that day the Michigan Good Roads Federation program was enacted by the Legislature over the governor's veto.

Overriding the wishes of the chief executive was recorded as another battle won in the virtual war for good roads that has been waged in Michigan since 1947. Like all wars, it was brought about through political shenanigans and selfish interests. However, it is not the intent here to discuss

How Iowa A.G.C. Broke Roads Deadlock—133

the ramifications of Michigan politics, but merely to report on the adoption of the good roads program giving the Wolverine State the nation's most progressive highway legislation.

In 1946 the Michigan Good Roads Federation, comprised of highway users, administrators, builders and materials and supply men, became greatly alarmed over the obvious deterioration of the state's over-all road and street plant. Rather than propose arbitrary increases in road revenues to take care of the disrepair accentuated by heavy war production traffic, the federation directors decided to make an engineering analysis of the state's road deficiencies. They were determined to find out the extent of road needs, the cost of meeting them, and a reasonable length of time for doing so. They decided to evaluate other pertinent factors such as highway administration, classification, financing and revenue distribution among the various road and street agencies.

Highway Needs Analyzed

To make this engineering analysis, the federation selected J. P. Buckley, now chief engineer, Highways Division, Automotive Safety Foundation, who was then completing a similar analysis for the State of California. Mr. Buckley, benefiting from his previous experience, organized Michi-

Michigan Good Roads Program Enacted After Many Setbacks

- Federation Finally Wins Four-Year Battle
- Progressive Legislation to Raise \$30 Million

By Lawrence A. Rubin

Executive Director, Michigan Good Roads Federation

gan's "Highway Needs" study. The federation appointed six of its directors to comprise the Highway Study Committee. They represented the Michigan trucking industry, the Automobile Club of Michigan, state highway department, county road commissions, municipalities and the road building industry. These six men were responsible for the determination of policy in connection with Mr. Buckley's engineering efforts. Step by step, paragraph by paragraph, chapter by chapter, the Highway Study Committee passed upon and approved Mr. Buckley's work.

The State Legislature recognized the federation's efforts and by resolution appointed a joint committee to counsel, advise and participate in the deliberations of the Highway Study Committee. Finally, in February of 1948, the report "Highway Needs in Michigan" was published.

15-Year Program Urged

Immediately the recommendations were boiled down to legislative proposals and finally into actual bills ready for introduction in the Legislature. Briefly, the program then called for additional road revenues—\$30,000,000 more from motorists who were paying about \$72,000,000 in 1948, and \$10,000,000 additional in funds raised by local units of government, which would be matched by state-collected revenues. These were the additional amounts necessary in the first year of a 15-year program to bring Michigan's highways up to modern standards.

The program also called for a distribution of road revenues based upon needs as determined in the federation's report. Consequently, the hodgepodge system of distributing revenues then in vogue was recommended for repeal in favor of the direct appropriation of road funds to municipalities, counties and the state highway department. (Michigan has

no township road commissions.) Representatives of the three groups agreed upon the formula that would give the state highway department 44% of the road revenues collected, the counties 37%, and the municipalities 19%. It was further provided that the highway department would spend 40% of its new construction funds within municipal limits and that the cost of trunkline maintenance within cities would be borne completely by the highway department instead of partially as then in effect. The new distribution would more than double the cities' share of state-collected road revenues.

The classification of roads and streets on the basis of their purpose, quantity and quality of traffic and general use was provided for. This classification had been tentatively made in connection with the planning and traffic activities of the highway department and needed only legislative approval.

An archaic law requiring the highway department to spend its new construction funds on the basis of geographic divisions rather than needs was repealed in favor of the latter.

Federation's Recommendations

The federation's recommendations require that all road agencies adopt a number of reforms in administrative practices which guarantee uniform accounting and uniform reporting on the use of state-collected revenues. Other measures call for better planning of road and street projects and closer coordination among all road agencies. The highway department is established as the clearing house for these activities and must report biennially to the Legislature on both future plans and past accomplishments for all road and street agencies.

County road commissions are required to have registered engineers on their staffs. City street departments must appoint a single individual to

deal with the highway department on all highway matters.

Originally the federation's recommendations made it mandatory that state-collected funds returned to road and street agencies for expenditure on local roads and streets be matched by those units of government. However, this mandatory matching requirement was eliminated. But the principle and intent of the Legislature was retained in that only limited state collected funds can be spent on "local" roads and streets. Any additional monies therefor will have to be raised by the unit of government benefiting therefrom.

The federation proposed that county road commissions confine themselves to matters of policy making and that members of the commission not be paid as wage or salary employees of the commission.

The federation made no recommendation as to how much the gasoline tax should be increased, nor the car registration tax. It did, however, clearly stipulate how much additional revenue was required and that it should be raised from highway users rather than from the state's general fund. Experience proved that since 1930 appropriations from the general fund for highways were short-lived and removed from the books within a year or two after their enactment.

Rebuff from Governor

The Legislature in 1948 special session was expected to act upon these recommendations at that session. Kim Sigler, then governor, indicated his willingness to "carry the ball for good roads in Michigan." However, the proponents of the good roads program were to meet their first rebuff when the governor, conscious of his upcoming election six months later, adamantly refused, as was his constitutional prerogative in a special session, to allow the Legislature to consider an increase in the gasoline tax. In the final week of the session he did open up the discussion to an increase in truck taxes, but this obviously would not have provided sufficient funds to do the job and the bills then introduced died in committee.

It was then that the individuals closely associated with the engineering analysis "Highway Needs in Michigan" fully realized how complex were their recommendations. From all corners of the state there arose criticism and complaints about the Federation's proposals and their impact upon in-

dividual county road commissions, cities and geographical areas of the state.

For example, many of the counties objected to the provision requiring the full time employment of a registered highway engineer. The northern part of the state objected to the new distribution formula inasmuch as it repealed the law requiring the state highway department to spend $\frac{1}{4}$ of its new construction funds in the Upper Peninsula and $\frac{1}{4}$ in the northern part of the Lower Peninsula. Cities, particularly the large ones, were in favor of the new distribution, but were lukewarm over the proposed increase in the gasoline tax.

Informing the Public

To answer these objections required hundreds of speeches by federation proponents in all corners of the state. It required correspondence with newspapers that literally ran into thousands of letters. Then, when these basic criticisms had been answered, there rose endless misunderstanding in connection with the formulas for distribution of funds to the individual counties and municipalities. When one stops to consider that 450 cities and incorporated villages ranging from populations of 200 to 2,000,000 must needs be satisfied, he can realize the tremendous burden shouldered by the Michigan Municipal League in collaboration with the federation in working out a distribution to all, which was still in line with street needs, and likely to be accepted by the Legislature.

The County Road Association of Michigan was faced with a similar problem in order to satisfy 83 county road commissions likewise varying in population and economic background. Both of these efforts were complicated by the fact that past distribution had established a pattern which could not be erased in that no road agency would willingly accept a decrease in revenues. For this they can hardly be blamed, in view of rising costs and the fact that a tax increase would be imposed.

Program Nearly Abandoned

Throughout the remainder of 1948 and winter of 1949 proponents of the federation program met with county and city officials time and again until practically all criticism had been allayed. Yet no political leader arose to carry the federation banner, and so long as the good roads program was

identified with a tax increase, the only members of the Legislature willing to be identified with it were those from the less populous parts of the state. Consequently, in the 1949 session the program was bottled up in committee, where it remained.

Following this legislative session, the federation, its treasury depleted and its spirits low, came close to abandoning the program. Such a development would have been a serious blow to Michigan's highway progress. Not only were the federation's proposals representative of good, sound highway legislation, but for the first time in the state's history all road interests were supporting a common effort. Hitherto, the state highway department, the counties and the municipalities had competed with each other bitterly in each legislative session for the lion's share of road revenues. This bickering over road funds was detrimental to highway progress. Yet, because of failure for the good roads program to be adopted in two successive legislative sessions, it appeared that the "spenders" would be forced to revert to their unhealthy practice of fighting each other at the Capitol.

Again Stymied at Capitol

However, this development did not materialize. The Board of Directors of the federation decided to hitch up their belts and make another try in the spring of 1950 legislative session. As was pointed out, the governor could then dictate what subjects the Legislature could consider in a special session. Governor Williams, who had succeeded Kim Sigler the year before, had set himself up as a good roads champion, and in this special session he emphasized the tremendous need for a highway improvement program. However, the governor wanted to finance those needs with an income tax on corporations. This proposal was contrary to the financial recommendations of the federation, but, more than that, was hostile to the majority of the members of the Legislature. While they wanted a good roads program financed by highway users, they would not support a good roads program financed by a corporation profits tax. The governor would not allow the Legislature to consider a gasoline or weight tax and the Legislature would not consider a corporation profits tax. So, once again, the federation program was stymied.

However, the publicity attendant to



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Rock Drills • Wagon Drills • Core Drills
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1851-1951

100 YEARS OF ENGINEERING LEADERSHIP

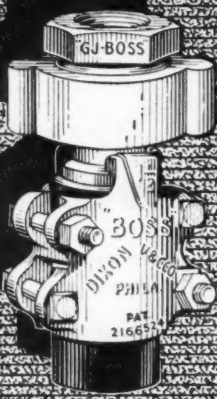
JOY MANUFACTURING COMPANY

GENERAL OFFICES: HENRY W. OLIVER BUILDING • PITTSBURGH 22, PA.

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Flawless Quality and Performance



*"GJ-BOSS" Ground joint female coupling Style X-34

The original washerless hose coupling... product of true perfection in design and construction. Provides unequalled convenience, durability and safety on all high or low pressure lines. Cadmium plated—rustproof.

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Main Office and Factory, PHILADELPHIA 22, PA.
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the quarrel between the governor and the Legislature focused the public's attention on the need for good roads. By this time road and street agencies, feeling the pinch for additional funds, even more than they did when the program was introduced, and having a better knowledge of the program, rose up in much greater support of it than ever before.

All-out 1951 Fight

Plans were laid for an all-out fight for the good roads program in the 1951 regular session. Contacts with members of the Legislature running for election and statements by the various candidates for public office indicated overwhelming support for the program.

In January of 1951 the Legislature met and the federation's bills were introduced in both houses by enough members of each house to insure their passage. However, "politics" raised its ugly head and the federation's legislation became the popular currency for legislative trading. As a result, it was mid-May before the federation's bills were enacted into law and sent to the governor for his signature. He had stated clearly that he would refuse to sign an increase in the gas tax of $1\frac{1}{2}$ ¢, but would accept a 1¢ increase, provided it were accompanied by legislation he wanted passed. The majority of the members of the Legislature were not disposed to make such a deal and so the Governor vetoed the gasoline tax.

Detroit's Expressways

At this point a little history is in order. During the 1950 special session, the City of Detroit, anxious to complete its expressways in four instead of 14 years, asked the Legislature for permission to issue \$100,000,000 worth of bonds so that funds would be available immediately. Several members from Detroit were extremely anxious to have this legislation enacted.

The chairmen of the key committees in connection with the bond issue for expressways were from rural Michigan. They were fearful that if Detroit's expressway program were taken care of by a bond issue there would be no effort to solve the state's road program with a gasoline tax. However, several Detroit members unequivocally pledged their support of the good roads program at the 1951 general session in return for enactment of the bond issue legislation.

In May of 1951 the promissory vote became due. It was now time for the Detroiters to make good on the good roads program.

The Senate overrode the governor's veto within 20 minutes after receipt of his message. The vetoed bills were then rushed to the House of Representatives. It caught some of the members of the House off balance, particularly the Detroiters who are of the governor's political faith, and so they voted to sustain him. The override vote was one short of the necessary $\frac{2}{3}$ majority. However, on the following day and in accordance with the rules of the House of Representatives it was moved to reconsider the vote by which the governor's veto was sustained. This motion was then tabled and the Legislature adjourned for the week end.

Legislature Overrides Veto

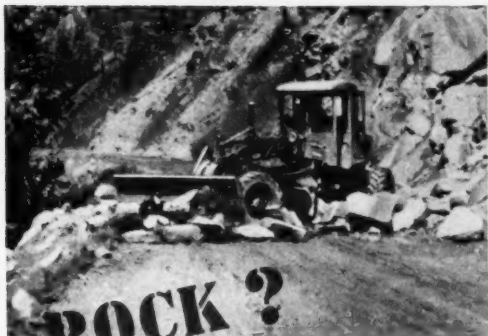
During that period the members of the House from Detroit who had promised to vote for the good roads program were contacted by their supporters and by county and city officials who reminded them of their commitment made in the preceding legislative session. These men were by conviction backers of the good roads program, but had been subjected to terrific pressure to sustain the governor.

On May 23, 1951, four of these Detroit members fulfilled their obligation to the people they represent and voted along with 66 other members to override the governor, thus giving Michigan the nation's most advanced highway legislation—the good roads program.

Prominent labor groups vigorously opposed the program, threatening to bring suit in the Supreme Court on the basis that the vote to reconsider the override was illegal. The best legislative and legal counsel in Lansing indicates that the move was entirely correct and that the Supreme Court would so rule. At this writing no action has been taken to set aside the wishes of 70 members out of 100 of the House of Representatives and 25 out of 32 in the Senate.

To the everlasting credit of the cities, counties, state highway department and other groups backing the good roads program is the fact that for three and a half years they withstood the continued efforts of many groups and individuals attempting to disrupt the federation's united front. The success of the program can be

what's **YOUR** headache.



ROCK ?

On an A-W Power Grader the bulldozer becomes a rough, tough tool . . . extra sturdy to match the extra power of ALL-WHEEL DRIVE, and fully up to this job of clearing a rock slide.



SAND ?

Live, climbing power at both ends of the machine keeps it bulldozing steadily through sand where an ordinary grader would find it difficult to travel, let alone work.



EARTH ?

On this railroad fill, there is plenty of power and traction to use both blades, with their fingertip hydraulic controls for quick and easy, precision operation.



TREES ?

First, the grader blade with its deep-plowing ability is socked into the ground to undercut the tree roots; then the bulldozer backed by the superpower of ALL-WHEEL DRIVE finishes the job.

The traction and maneuverability of A-W Power Graders make them ideal tools for the Bulldozing jobs found on grading and construction work. Heavily made and reinforced to accommodate the extra power of All-Wheel Drive and Steer, the Bulldozer is an essential for many jobs—a time and money-saver for dozens of others.

AUSTIN-WESTERN COMPANY, AURORA, ILLINOIS, U. S. A.

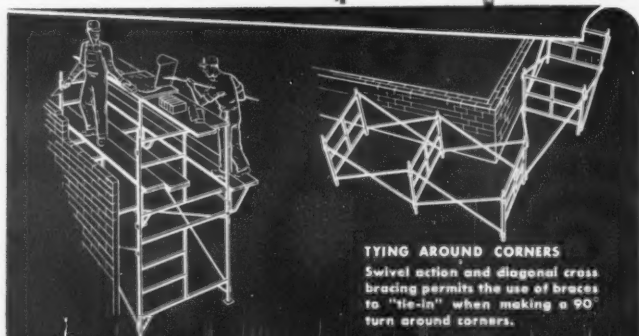
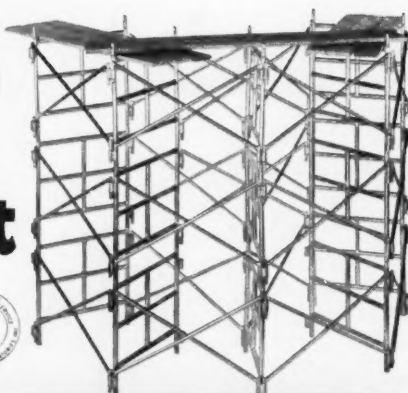
Subsidiary of Baldwin-Lima-Hamilton Corporation



On Any Scaffolding Job . . .

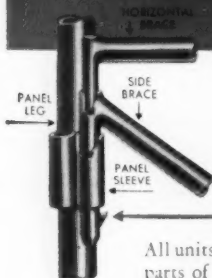
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SAVINGS with

UNIVERSAL
Ezebilt
SCAFFOLDING



MASON PANEL

With standard SU type panels open passageway is provided through the lifts. Four plank bearing levels are available using brackets on top and bottom members.



No Bolts! No Nuts! No Loose Parts!

With The Gravity Lock!

All units of the gravity locking mechanism are integral parts of the panel legs and side braces—one man can assemble. Ezebilt's exclusive feature helps you erect faster and more economically—just put the units into position and the scaffolding is assembled.

Ask about "ENDLOK" Tubular Scaffolding for difficult and unusual applications. Distributors throughout the country—Write for Complete Descriptive Catalog



UNIVERSAL MANUFACTURING CORP.

World's Largest Producer of Steel-Panel Scaffolding

430 NORTH STREET • ZELIENOPLE, (PITTSBURGH DISTRICT) PA.

For Tubular Towers Catalog—Write our AMERICAN TUBULAR ELEVATOR CO. DIVISION

HIGHWAYS • AIRPORTS

attributed to the fact that the organizations and interests having a stake in road development were constant in their cooperation with and faith in each other—a powerful lesson in highway progress.

Effective June 1

The program went into effect on June 1, 1951. The gasoline tax was increased 1½¢ and the weight tax on commercial vehicles over four tons was raised on a graduated scale from 20% to 80%. These measures will bring in about \$30,000,000 additional revenues. The entire good roads program, as outlined in the preceding paragraphs, was adopted.

As one newspaper man remarked when the governor's veto was over ridden—"The road problem is now out of the hands of the politicians and up to the road and street administrators. We shall see what they can do."

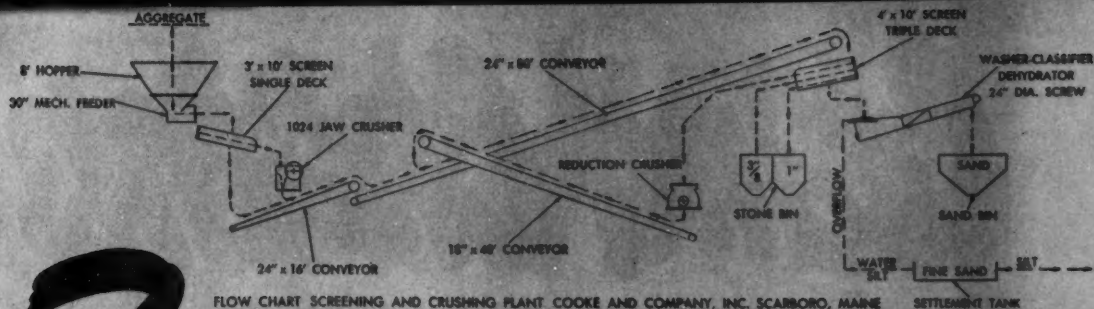
Better Roads—Fewer Deaths

Deterioration of the nation's road system is one of the prime causes of motor vehicle accidents, according to reports of the President's Highway Safety Conference and a statement by the President himself.

Mr. Truman told Federal and State officials, and safety group representatives attending the June 15-17 meeting of the conference in Washington, that "for nearly 20 years, highway improvement programs have lagged far behind our needs. This has been because of the depression and war, and also because of the tremendous increase in the number of vehicles. Much of our main road mileage is worn out and obsolete, and the replacement program has not kept pace. . . .

"Some highway projects may have to be deferred. But good roads are essential, and we must not make the mistake of thinking that highways are expendable in the emergency period."

The committee on engineering in its resolution stated that highway safety depended upon developing and maintaining an adequate highway system, and that the erroneous assumption made during the war that highways were expendable caused road deficiencies "which in no small measure contribute to the mounting toll of property damage, personal injury and death taken by preventable traffic accidents."



FLOW CHART SCREENING AND CRUSHING PLANT COOKE AND COMPANY, INC. SCARBORO, MAINE

SETTLEMENT TANK

3

Times the Production

at less than HALF the cost



Over-all view of plant from discharge end. Truck in foreground is receiving load of washed sand from sand bin.

Close-ups of primary crusher, screen and feeder.



At the left, three-deck screen over two-compartment stone bin.
At the right, sand-classifier-washer-dehydrator over sand bin.



Feeding and discharge ends of double-screw, 24" washer-classifier-dehydrator, which has a capacity of 120 tons per hour.

That's the experience of Cooke & Company with their new Austin-Western crushing and screening plant. Cooke & Company operate large gravel and sand pits in Scarborough, Maine; sell concrete mix, asphalt mix, washed gravel and washed sand. The separation of aggregate into stone of two sizes—"peastone" and "buckwheat"—and washed silt-free sand is the principal operation.

In the words of A. C. Stanley, president of the company—

"Compared with our previous operation, we save two trucks and four men — a total of \$92.00 daily . . . are producing three times as much as before, at less than half the cost . . . quality of the gravel and sand produced has been very satisfactory . . . clean, carefully washed material is important when you want to obtain concrete that does not deteriorate."

Each Austin-Western plant is "tailor-made" for a particular production problem. Our engineering department will be glad to discuss yours.

AUSTIN-WESTERN COMPANY, AURORA, ILLINOIS, U. S. A.

Subsidiary of Baldwin-Lima-Hamilton Corporation

BUILDERS OF **Austin Western**
SINCE 1859



Grand Champ

Carroll Brown's big red TD-24 wins out on Colorado's "toughest road construction job ever!"

This summer, tourists welcomed the new wonder highway to the gleaming trout lakes atop Grand Mesa. But the men who built it called it "The Snake Pit"—a two-mile-high inferno of falling rocks, dynamite-proof basalt, and even prehistoric ice on the high north slopes where the sun never shines.

They had to clear out 300,000 cubic yards of snow before they could start building. They could work only from June to October each year—and they had to make a two-hour trip to the job each day because the air on Grand Mesa was so thin men couldn't stay at the job site.

It took five years and a million dollars to build six miles of highway—nearly a year and two hundred thousand dollars a mile. Carroll Brown, of the Brown Construction Company, finally finished

the job with flying colors, and he came up with this conclusion:

"On this most difficult project our company ever tackled, under the severest conditions we ever encountered, the International TD-24 tractor definitely outperformed all competitive equipment."

Once again the big red crawler had proved itself the Champ. The Champ for tough, dogged, never-give-up guts—148 maximum horsepower at the drawbar, 8 speeds forward, 8 reverse, Planet Power Steering with finger-tip control.

Ask your International Industrial Distributor for the real low-down on the TD-24. It's backed by complete parts supplies and service facilities for the hard-working years ahead. Get the whole story. You'll be a TD-24 man from then on in!

INTERNATIONAL HARVESTER COMPANY, CHICAGO 1, ILLINOIS



INTERNATIONAL

POWER
THAT PAYS



of Grand Mesa

TWO MILES HIGH on Grand Mesa, an International TD-24 dozes more rock with more speed on new million-dollar highway. Volcanic rock, dense-grained basalt proved a pushover for the big red Champ.



GRAND MESA
2 MILES

DENVER
1 MILE





Complicated

DEEP IN THE HEART
OF NEW YORK CITY

Waterside No. 1 Generating Station, for Consolidated Edison Company of New York, Inc., designed by Consolidated Edison Company.



Straight forward

OUT IN
NOBLESVILLE, IND.

Noblesville Power Station, Noblesville, Indiana, Public Service Company of Indiana, Inc. Designed by Sargent & Lundy.

You can depend on American Bridge to build it right!

THE pictures above give you a pretty good idea of American Bridge Company's versatility. We fabricated and erected all steelwork for both power plants.

The reconstruction of Consolidated Edison's Waterside No. 1 Generating Station in a congested area of New York City involved a number of out-of-the-ordinary working problems. It called for complete new steelwork for the boilerhouse and west electrical gallery buildings,

new turbine foundations, and new bus tie between the east and west galleries. These necessitated complicated shoring and alterations, and the skillful maneuvering of heavy girders and construction equipment.

American Bridge Company has the know-how and experience, plus the men and equipment to handle either type of job speedily and economically. Just call our nearest Contracting Office.

AMERICAN BRIDGE COMPANY

General Offices: Frick Building, Pittsburgh, Pa.

Contracting Offices in: AMBRIDGE · BALTIMORE · BOSTON · CHICAGO · CINCINNATI

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PORTLAND, ORE. · ST. LOUIS · SAN FRANCISCO · TRENTON · UNITED STATES STEEL EXPORT COMPANY, NEW YORK



AMERICAN BRIDGE

UNITED STATES STEEL

» **RECOGNITION** of construction as a highly skilled science is growing in the educational world as demand continues unabated for construction engineers with exacting knowledge of construction materials and engineering fundamentals.

Catering to this demand is the construction curriculum in the School of Engineering at North Carolina State College—the only course in the country leading to a Bachelor of Science degree in construction. Other colleges do have construction courses, but they are usually just a part of the civil engineering program, whereas at State College the course is a regular four-year degree curriculum in itself.

The program is a recent one, having been instituted in 1949 to meet a demand by the construction industry in the state for men with an engineering background who are also trained in structural and business essentials of the industry.

A.G.C. Branch Aided Program

Head of the construction program is Henry E. Grisct, an associate professor of civil engineering. His background includes a Bachelor's and Master's degree in civil engineering, 10 years of experience as an engineer in the construction field, and 10 years of teaching experience. As one well acquainted with the problems and demands of the industry, Professor Grisct is firmly convinced of the value of selected academic training along these lines.

The Carolinas Branch of The Associated General Contractors of

No. Carolina Offers Construction Degree

• Work and Study Program Emphasizes Fundamentals

America, representing general contractors in North Carolina, cooperated with officials of the School of Engineering in working out the program of construction courses. The A.G.C. chapter initiated a fund-raising campaign for the construction education program.

The curriculum is designed to give students a fundamental background in engineering and in studies in the humanities, and specialized training to solve problems of structures, labor, management, organization, and finance peculiar to the industry. As compared with civil engineering training, the emphasis is on production or erection of structures, rather than design.

Study Problems, Visit Sites

Courses are also designed to instill the ethics of the profession in the students, as well as the factual knowledge. An effort is made to develop in them favorable habits of work and attitude. Pride in good workmanship is the one factor that remains unchanged when comparing the modern construction engineer with the carpenter of bygone days.

Actual practices and problems of the industry are studied in classrooms and laboratories, and frequent field trips are taken to sites under construction.

The students learn by doing. They construct small scale models of all

types of buildings, involving all the intricate calculations of erecting a full-size structure. Equally at ease when working with lumber, steel, or concrete, they make exacting studies of all materials of construction, with references to residences, highways, bridges, dams, and buildings for industrial and institutional purposes. Stress is placed on methods which combine economy and efficiency.

Student Bidders Attend Letting

A recent problem, occupying a term's study in bidding and cost control, involved actual preparation of construction bids by procedures identical to those used in the industry.

The state government advertised its intention of having an administration building erected for the state hospital at Raleigh. The architects of the structure, Walter Hook and Associates of Charlotte, cooperated with the students by supplying them with the plans and specifications for the job.

Estimates were prepared by groups of students, who then attended the letting. Gratifying results demonstrate the success of the academic program, for student estimates on the general, plumbing, and heating contracts closely corresponded with those of experienced contractors.

The actual general contract bids were \$1,053,000; \$1,081,480; \$1,127,300; \$1,186,000; and \$1,245,900. The student bids were: \$1,118,899; \$1,206,444; and \$1,222,829. The practice bids included a complete breakdown of all costs except hardware, in which a subcontract bid of \$30,000 was used.

Summer Employment Compulsory

Actual working experience in the field is one of the requirements for the construction degree. One summer's employment is compulsory, and the majority of the boys work several summers, so that all will have acquired some experience tying in their teachings with actual practices, even before graduation. Experience is a great teacher, and it can teach a great deal more a great deal faster, if the inexperienced person is well-equipped with a background of fundamental knowledge, the instructors assert.

Graduates of this program will be



Third year of construction curriculum finds students busy in practical classes and looking forward to graduation next spring.

I've come to realize...



"The choice of a surety company is a decision every contractor should make with an eye to the future.

"Originally, I chose the Aetna Casualty and Surety Company because their men spoke my language. Their underwriters knew the contracting business — whether the job was small and conventional or big and complicated.

"As we began to expand, I learned more reasons for sticking to my choice. The Aetna Casualty and Surety Company was well known throughout the country. Frequently, the Aetna name alone 'broke the ice' for us in places where we hadn't yet established our own reputation.

"From coast to coast, their representatives provide prompt service — the kind of service you need when filing deadlines get close. I would advise young contractors to start out with the right surety. Its name will re-enforce your own reputation. Its resources and facilities will give you room to grow . . . to bid on any kind and size of job in any location."

Coast to coast . . . you can count on
The Aetna Casualty and Surety Company
for prompt, efficient contract bond service.

"No Job too Big... No Job too Small"



AETNA CASUALTY AND SURETY COMPANY

The Aetna Life Affiliated Companies write practically every form of insurance and bonding protection

LIFE AND CASUALTY	FIRE AND MARINE
Aetna Life Insurance Company	Automobile Insurance Company
Aetna Casualty and Surety Company	Standard Fire Insurance Company

Hartford 15, Connecticut

EDUCATION

prepared for future work as owners, managers, or executives in the construction field. At present the first class in the curriculum has reached its junior year. An enthusiastic reception is expected by the industry next June, when this class graduates.

The construction curriculum is an example of how cooperation between a far-sighted industry and a willing school of engineering has provided a permanent supply of engineers, trained in the fundamentals of the industry. The graduates will have acquired a firm foundation from which they can expand and grow while on the job, and which they can utilize to help the industry expand and grow, in turn.

Engineer Shortage Foreseen

» A SHARP decline in the number of engineers being graduated and the susceptibility of the profession to the draft are combining to cause a serious shortage of those technicians, according to the Engineering Manpower Commission.

A recent survey report by that body announced that industry will be able to count on only about 19,000 engineering graduates this year. In the face of an estimated need of 30,000 annually, that figure forecasts a grim situation.

Enrollment Decline Cuts Supply

The commission, a research and advisory board sponsored by five large engineering societies, claims that drastically declining enrollments in engineering colleges in the past few years have cut into the supply of graduates available and the draft has further depleted the ranks of working professionals.

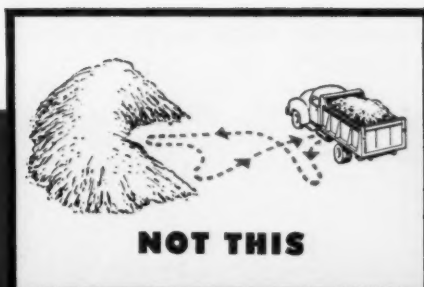
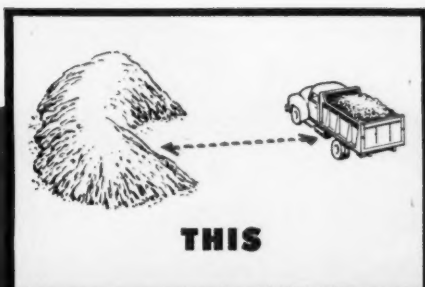
Their statistics bear out a long-felt situation, which a joint committee of the Associated General Contractors of America and American Society of Civil Engineers has been trying to ease.

A.S.C.E.—A.G.C. Group Meets — Page 164

In the construction industry, the shortage will align itself with other current problems to the detriment of important construction programs throughout the nation.

A 1946 survey of the country's 85,000 civil engineers reported that 66.7% of them were involved in the construction industry and in govern-

(Continued on page 105)



...is the **PROFIT WAY!**



You cut out costly loading "detours"... save time and effort... with an Oliver Industrial Wheel Tractor and Strait-Line Loader. This revolutionary hydraulic, double end tractor-loader can load either in front or rear... dump in front. The operator can load and dump without twisting or turning the tractor... travel a *straight line* between pile and truck.

Rear-end digging gives you far more loads with far less effort. "Push-Tilt" bucket with penetrating lips gives you a bigger load every time.

With bucket carried in the rear, *and low*, additional traction is created, assuring far greater mobility and maneuverability in any kind of going. Rear-carried bucket puts increased load on rear wheels for increased traction... lightens load on front wheels for far easier steering.

Investigate the Oliver—Strait-Line for your operations. Your Oliver Industrial Distributor will give you the complete details. Or, write The Oliver Corporation, Industrial Division, 19300 Euclid Avenue, Cleveland 17, Ohio.

THE OLIVER CORPORATION

A complete line of industrial wheel and crawler tractors





ADNUN ROADS

are long life roads...

THE best testimonial to Adnun design is the excellent condition of the miles of Adnun laid roads that have carried 15 to 16 years of heavy traffic. The oldest machine laid roads in the world are Adnun Roads. Look at the heavily traveled highway above—a part of the Hamilton-Brantford road in Ontario, one of Canada's main arteries—laid in 1936. The one below—Colorado Blvd.—one of Denver's well known streets laid in 1935. And the bottom picture—part of the Indianapolis Speedway laid in 1936.

These are but a few of many photographs in our files that show prominent traffic arteries in city, state and county systems. These are roadways that bear heavy traffic counts: Streets that take the beating of trucking and speed under a full range of weather conditions. Note the evenness of wear *clear across*, the few signs of patching, the freedom from breakdown.

The Adnun principle of continuous Course Correction assures surface smoothness and a uniformity of course thickness that no other paver can equal. The Oscillating Cutter Bar action cuts the material off at the proper level and does not tear it. Material is carried up to the parallel course and is compacted in place, making a tight joint, a joint that will not throw a car off its course. *The Adnun builds longer life roads and safer roads.*

You will be interested in the booklet, "11 Basic Things." It will give you some new thinking on black top paving equipment. Send for it.

THE FOOTE COMPANY, INC.
Subsidiary of Blaw-Knox Co.
Nunda, New York

ADNUN

TRADE MARK REGISTERED

BLACK TOP PAVER



EDUCATION

(Continued from page 102)

ment agencies concerned with construction. Since then, although record-breaking numbers of engineers have been graduated, demands of the industry have evidently been unslacked. Now decreasing graduating classes and the requirements of the military are beginning to be felt.

Some of the objectives of the Engineering Manpower Commission, which is operating upon request of the National Security Resources board, are: (1) to encourage high school students to enter engineering curriculums, (2) to advise colleges and governmental agencies on deferment of engineering students from military service, (3) to advise employers of the conditions under which deferment of engineers may be secured and the procedure involved, and (4) to offer guidance to governmental policy makers on the conservation of engineering manpower.

The commission represented the American Society of Civil Engineers, American Institute of Mining and Metallurgical Engineers, American Society of Mechanical Engineers, American Institute of Electrical Engineers and American Institute of Chemical Engineers in deploring the military drain on the profession. It stated that industry must be able to retain its engineers if research and progress on national defense is to continue.

Iowa A.G.C. Presents Award

The first annual \$500 scholarship award of the Associated General Contractors of Iowa was given to Joe H. Scheel, civil engineering junior at Iowa State College, during the school's Honors Day program held at Ames May 23.

The award is given by the A.G.C. of Iowa to a student in the Civil Engineering department of Iowa State College who has had some construction experience and who plans to take construction subjects during his senior year. Candidates are judged on scholarship, personality, and activities which show promise of achievement in the construction industry.

Mr. Scheel's primary job interests are in highway and bridge construction.



Mr. Scheel

the WARCO motor grader has positive hydraulic controls...cab-controlled



blade positions...rugged long-life construction.

- Included in the base price are features usually billed as "extras" by other makes.
- For a unique combination of practical work-producing features, you pay the market's best price. Your WARCO dealer can prove this...ask him!

WARCO 4D-100 Motor Grader
Heavy Duty 100 H.P.

WARCO 4D-76 Motor Grader
General Duty 76 H.P.

ASK TO SEE WARCO COLOR SLIDES

An informative series of color slides showing WARCO design... construction... operation... new at your WARCO dealer's. Ask for a showing soon!

WARCO

MOTOR GRADERS

W. A. RIDDELL CORP.
BUCYRUS, OHIO

builders of WARCO Motor Graders - HERCULES Road Rollers



BRAB Issues Research Progress Report

• Organization Studies Technical Problems for Building Industry

» A RECENT progress report by the executive director of the Building Research Advisory Board, National Research Council, swings the spotlight across some of the modern problems of building and reveals that organization's contributions in research during the last year.

Written by William H. Scheick, executive director, the report outlines the recent activities of the board in pursuance of its aim to keep the building industry aware of contemporary research. These have included the periodic publication of *BRAB Notes*, a news letter divulging current experiments, promoting conferences on specific problems, supporting research committees, conducting surveys and otherwise aiding the dissemination of scientific information to builders.

To Confer on Atomic Installations

One of the current undertakings by BRAB is the promotion of a conference on problems of atomic installations in buildings. During the third week in October, the board reports, a meeting of building experts will be held in Washington to study recent developments in atomic energy affecting the design of buildings. At the conference, which will be jointly sponsored by the American Institute of Architects and the Atomic Energy Commission, much information will be released that is now classified and unavailable to builders. Contractors interested in building atomic installations or laboratories will be able to obtain conference proceedings after joint publication by BRAB and AIA.

Seeks Climate Atlas for Builders

A BRAB committee on climatic research has been studying the needs for data to enable architects and engineers to adapt buildings to climatic variations in the United States. Basing their resolution on the benefit that would result to federal building in the defense program especially, this group recommended that the government prepare a climatological atlas. It pointed out great potential savings in maintenance, fuel and building materials. Interest in the subject has been manifested by the number of requests BRAB has received for the published proceedings of a conference on "Weather and the Building Industry."

Another conference proceedings publication, "Fire Resistance of Exterior Non-Load-Bearing Walls" is available for distribution now.

Board Willing to Advise Agencies

Although BRAB has not acted as a unit in advisory capacity to any government agency, members have served as individuals, and the organization is willing to serve, in that capacity upon

Agency Aided in Survey

—Page 65

request. It has pointed out in the past that it will speak on technical matters only and that is not established to express opinions on political or business problems of the building industry.

New Research Institute Created

In order to establish stronger liaison with the building industry and thus make research results available more directly to the field, BRAB has created a supporting organization, the Building Research Institute. It is hoped that the new affiliate will draw technical and financial assistance from the phases of the construction industry most likely to benefit directly—

contractors, manufacturers and associations. Industry forums and a fast-working publications service will be among the first services considered by the new institute.

Since its success with a survey in 1949 on acceptance of modular coordination, BRAB has been called upon to survey housing research. Acting on contract for the Housing and Home Finance Agency, BRAB will attempt to assemble information about the research projects of more than 900 various organizations. In that way it can become an information depot to steer queries to appropriate sources in that field.

Financial support of the research board needs strengthening from many different building fields so that the organization may remain independent of any one. Appeals will probably be made to the industry to back the newly formed Building Research Institute from which benefits will be even more direct. A number of professional and trade associations, including The Associated General Contractors of America, and manufacturers have furnished staunch support for building research. In the meantime, the reputation of BRAB continues to spread, as Mr. Scheick said in his recent progress report, and is becoming known as "an independent, technical organization with a tangible job to do."

Prestressed Concrete Parley Scheduled

» A NATIONAL conference on prestressed concrete will be held next month at the Massachusetts Institute of Technology.

In this first U. S. conference on the fairly new construction technique, engineers, contractors, building materials manufacturers and public works officials will take stock of recent applications of the theory and the problems connected therewith.

The M.I.T. conference will mark another step in the adoption of a unique European idea by American builders.

Prestressed concrete is a term used to describe concrete members which are compressed by running cables through them and then drawing those cables tight. The concrete is poured in ordinary forms, but without much of the usual steel reinforcement. However, tubing is laid in the forms and through these tubes are threaded the

wires to be tightened after the concrete beam has hardened. Tension applied to these cables, above the tensile strength sufficient for the expected load, compresses the concrete to an unusual degree, giving it great strength.

The illustration often used to describe the effect is this: by pressing firmly on both ends of a row of books, one can lift the whole row as one unit. A prestressed concrete member can be likewise kept intact, that is, by compressing it and holding it in compression by steel cables drawn to high tension. In fact, some concrete bridges are formed of separate concrete blocks, held tightly together by prestress cables running through them.

The idea has been utilized in European countries, particularly France, for some years. There, it was favored

(Continued on page 111)



MARLOW pumps relied on for United Nations construction project!

This group of dependable Marlow Self-Priming Centrifugal pumps helped Fuller-Turner-Walsh-Slaterry construction companies keep huge United Nations building project on schedule. Experienced construction men everywhere avoid trouble and protect profits with the pumps that can't be beat for staying power . . . MARLOW pumps.

REMEMBER! Marlow pumps prime faster, pump more, last longer and for over a quarter of a century have been the accepted standard of the industry. Let Marlows help you, too.

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How this window wall removes a Barrier

Imagine *yourself* sitting all day in a classroom with a closed-up, smothering atmosphere . . . an atmosphere that builds a barrier of lethargy between you and your work.

You can break down that psychological barrier by removing the physical barrier. By opening up that classroom with a room-length, ceiling-high window wall of light-inviting Fenestra* Intermediate Steel Windows for a feeling of freedom . . . an atmosphere of *alertness*.

YOU GET:

More Daylight—An abundance of eye-easy daylight flows over the whole room. Fenestra Steel Windows have more glass area than most windows

the same size because their frames are designed to be strong and rigid without being bulky!

Controlled Fresh Air—Vents protect from drafts . . . permit ventilation even on rainy days.

More See-through Vision—Nothing destroys the freedom of the view.

More Protection from Accidents—Sill vents keep children from falling out.

Fenestra Steel Windows give your school architectural distinction . . . inside and out. And the custodian can wash and screen them from *inside!*

Remember the *triple* savings you get with standardized Fenestra Intermediate Steel Win-

Fenestra WINDOWS • PANELS • DOORS



dows: Low first cost . . . volume production. Low installation cost . . . modular sizes. Low maintenance cost . . . steel *lasts*.

FENESTRA HOT-DIP GALVANIZING SLASHES WINDOW MAINTENANCE COSTS

Check on Fenestra Hot-Dip Galvanized Windows. The combination of the strength of

steel and super-protection of the special galvanizing done in Fenestra's automatically controlled new galvanizing plant puts new meaning in the term "maintenance-free." No painting, period!

For further information, call the Fenestra Representative (listed in your Yellow Phone Book), or send the coupon. *®

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BETTER CLASSROOM DAYLIGHTING—Well-illustrated, simply-written, 16-page guide based on two years of research by well-known Lighting Expert R. L. Bieseke.

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engineered to cut the waste out of building

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Detroit 11, Michigan

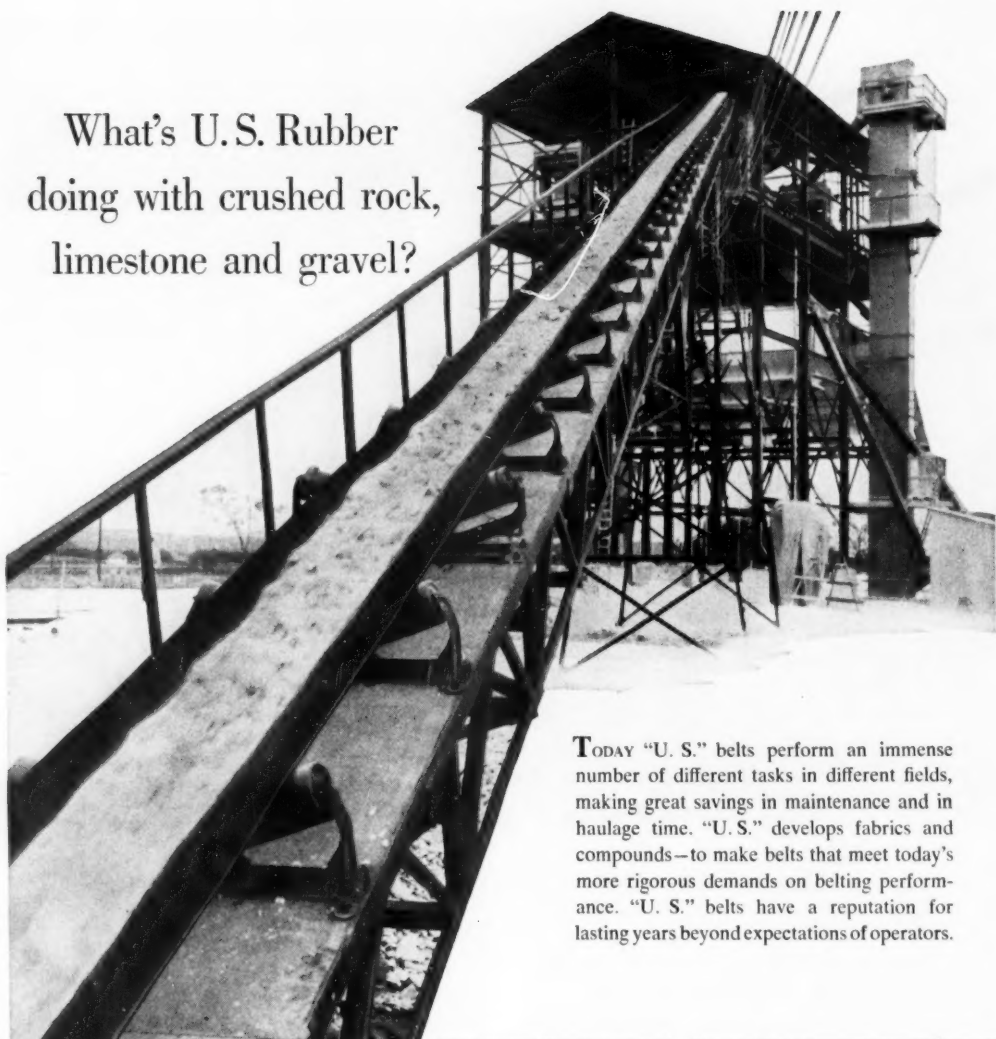
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doing with crushed rock,
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THIS U. S. RUBBER BELT carries crushed limestone in a modern, highly efficient plant in the Midwest. The belt has 220-ft. centers and a 17-degree incline. The high output and high mechanization of this plant would be impossible without such specially designed products as this "U. S." Belt.

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TODAY "U. S." belts perform an immense number of different tasks in different fields, making great savings in maintenance and in haulage time. "U. S." develops fabrics and compounds—to make belts that meet today's more rigorous demands on belting performance. "U. S." belts have a reputation for lasting years beyond expectations of operators.



GRAVEL PLANT that handles up to 150,000 tons of wet sand per year. The "U. S." belt on the outdoor installation above has been working steadily on this job for over 8 years and is still going strong.



HERE A "U. S." CONVEYOR BELT carries crushed rock from pit to surge pile. It has been in operation 8 to 10 hours a day for several years. Its present excellent condition indicates at least 10 years' service life.

UNITED STATES RUBBER COMPANY

MECHANICAL GOODS DIVISION • ROCKEFELLER CENTER, NEW YORK 20, N. Y.

(Continued from page 106)

because of the scarcity of steel (prestressed concrete takes comparatively little steel) and the greater availability of cheap labor. The need to economize on steel in the U. S. is drawing support for the process here.

The Walnut Lane bridge in Philadelphia, now a landmark in U. S. prestressed concrete history, was an experimental site for the technique in late 1949 (December 1949 *CONSTRUCTOR*). Engineers, contractors, architects and other construction specialists saw a 160-foot prestressed concrete girder "tested to failure." In order to determine the over-all strength of a proposed bridge member, the prestress subcontractor for the project added gradual weight to it until the concrete finally gave way. Although the normal fabricated load-strength of the girder was 750 pounds per lineal foot, prestressing permitted a burden of 5,000 pounds. Then the center section sagged about 15 inches, but did not break. Only when 60 tons was concentrated atop the center section did the beam crash.

A Belgian professor, Gustav Magne of the University of Ghent, acted as design consultant for the prestress contractor, Preload Corporation.

Last March a pedestrian bridge was erected in Los Angeles which had two 113-foot prestressed girders. The prestressing, done on the site, was applied to 125 quarter-inch high tensile wires running through each member. Hydraulic jacks were used to tighten the wires to a total tension of 715,000 pounds. The concrete used was the standard mix specified by the highway division and had a tensile strength of 5,000 psi. Savings effected by the technique were particularly noticeable in materials. The prestressed design required 50 cubic yards of concrete compared to 88 cubic yards in the conventional and 12,000 pounds of steel compared to 40,000 pounds in the conventional.

French engineers have literally tied a 125-foot lighthouse down to its foundations by channeling tensioned wires from top to bottom. Not only vertical prestressing, but stressing of the precast circular sections of the tower has made the structure of great rigidity.

These are a few examples of the type of prestressing work that will be appraised in the M.I.T. conference. Professor Walter H. Gale, director of

the summer session, has announced that three departments of the school will participate in the program sponsored partially by a number of professional societies. The August 14 to 16 discussions will be built around such questions as these: (1) In what immediate specific applications may prestressed concrete effectively supplement or supplant ordinary reinforced concrete? (2) What will be the most

economical mix designs, and what type of prestressing steel is best employed? (3) What construction methods for prestressing are available, and what are the advantages and disadvantages of each? (4) How may the European methods of construction be adapted for efficient and economical use in this country? and (5) What about a design code for prestressed concrete?

NO TIME LOST! LOADING OR LAYING ITS LOAD



A STANDARD STEEL
PRESSURE DISTRIBUTOR
GIVES EQUAL CIRCULATION
THROUGHOUT
THE SPRAY BAR FOR A
UNIFORM SURFACE
FROM CURB TO CURB
FOR LONGER WEAR

STANDARD STEEL PRESSURE DISTRIBUTOR

The Model 424 can be loaded in quick time for a "fast get-away". A two-way cleaning system guarantees a clean spray bar at the end of the day. First, the material is sucked out of the bar and back into the tank. Then by turning one small valve, cleaning solvent is released into pump and spray bar (without contaminating the asphalt in the tank). No time lost in tinkering — no time lost in loading — Standard Steel 424 keeps going all day long far ahead of the "gravel gang"

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Important Features Before You Buy!

- 1 Are the crawlers long and wide . . . are the shoes forgings, manganese steel or just ordinary cast steel?
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- 3 Is the machine equipped with independent crowd?
- 4 Do you know how much difference there is in line pulls and speeds on machines rated as having equal dipper capacities?
- 5 Are anti-friction bearings used at all important points of wear?
- 6 Compare rated crane capacities.
- 7 What kind of controls are used—compensating air, hydraulic or mechanical?
- 8 Is the operating machinery simple and easily accessible or is it complicated.
- 9 Are alloy steel shafts and heat treated machine cut gears used?
- 10 Are the hoist, crowd and swing speeds in proper balance for maximum production?
- 11 Compare weights and ballast.
- 12 Is the published engine horsepower rating the net or gross at the flywheel?

MARION
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these comparisons because they have an important bearing on how well a machine will perform, how long it will last and how much maintenance expense it will require over the years. **COMPARE**—see why **MARION** is the first choice of **BUYERS WHO COMPARE!**



The Associated General Contractors of America, a co-sponsor of the conference, will be represented by A. E. Horst, a former national president of the association and general contractor on the Walnut Lane project experiment, and Fred I. Rowe, of the W. L. Johnson Construction Company, Columbus, Ohio.

Rubber Roads Gain Interest

With maintenance a substantial highway expenditure, road officials and contractors are becoming more and more interested in a paving material that claims to cut costs appreciably.

To meet queries about the use of natural rubber in highway asphalt mix, the Natural Rubber Bureau of Washington, D. C., has issued a 1951 edition of its booklet, "Stretching Highway Dollars with Rubber Roads." In it are noted the peculiar advantages claimed for the material—greater elasticity, reduced maintenance costs, less susceptibility to temperature changes and ability to absorb vibration. The author tells of the results of various experiments to which asphaltic rubber has been subjected.

A notable example of the material's durability is pointed out in The Netherlands. There a rubber-asphalt paving carried the military machines of first the Germans and later the Americans and, 13 years after its construction, is still "in very good condition and has required no maintenance."

A number of eastern states and Ohio, Texas and Minnesota have laid experimental stretches. Their experiences with the material are outlined in the new booklet, obtainable from the Natural Rubber Bureau, 1631 K St., N. W., Washington 6, D. C.

Paper Concrete Forms Used

Unlike wood or steel forms, paper forms used in sinking concrete piers do not have to be removed.

In the construction of the Audubon Park apartments, St. Louis, square tubes of paper ranging from one to 16 feet in length and 14 inches wide were slipped over reinforcing rods. Concrete, when poured into the tubes, caused them to expand into a full circle thus giving the piers their required diameter. They were manufactured by the Gaylord Container Corporation of St. Louis.

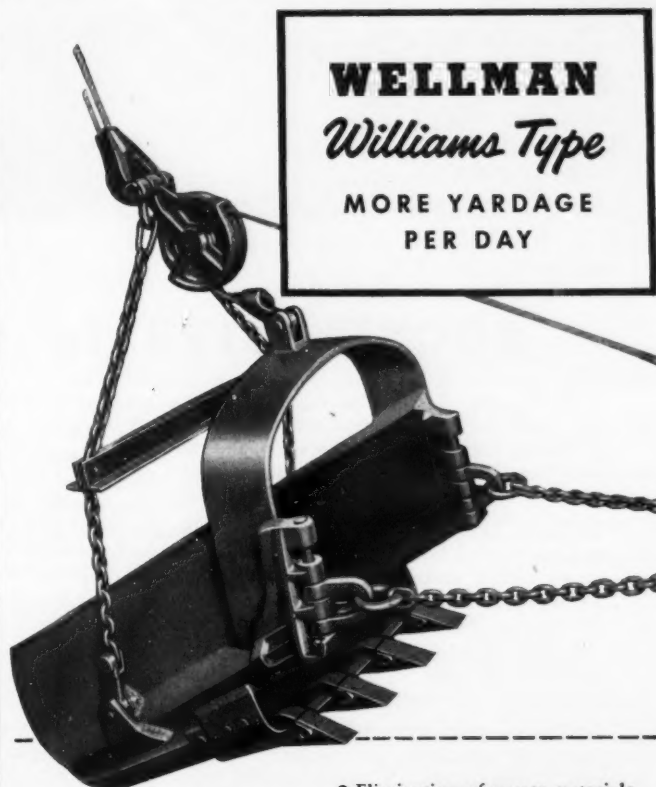
New Building Block Produced

Territorial manufacturing franchise rights are being assigned Americans to start turning out Ytong, a cheap, lightweight building block, which, it is claimed, "will substantially reduce the current high cost of building in the United States."

Ytong, originally a Swedish prod-

uct, looks like a petrified sponge. It can be made in specified lengths and cut like wood. In addition, the promoters say, it has an amazing heat insulating capacity, is frost-resistant, soundproof and fireproof.

Compression strength of the new block—1000 psi.—allows its use in exterior or interior walls up to 10 stories.



• Elimination of excess materials and careful weight distribution permit rapid, rhythmic operation of Wellman Dragline Buckets. Operators can cover a wider digging radius with this streamlined bucket.

Built of special alloy steel, using strong welded design, Wellman buckets provide strength and stamina for long-term economy. Perforated designs also available. You'll do better with Wellman.

Want Facts?

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THE WELLMAN ENGINEERING COMPANY
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DRAGLINE, CLAMSHELL, CUSTOM-BUILT BUCKETS • STONE AND WOOD GRABS



A 109-hole blast without mats! ... A **ROCKMASTER "16"** blast, of course

This was tough blasting, all right! Smack in the middle of Bend, Oregon and hemmed in by homes, a fire house, a gas station, and the main building of the hospital to which J. H. Wise & Son, Inc. was building an addition.

In Bend, every small excavation must be blasted out of lava rock—and even small blasts under protective mats have often meant broken windows and a flood of complaints. So, "You'll break every window in town" was the natural reaction to the plan of the sub-contractor, Morrison-Knudson Co., to fire a 109-hole blast.

At the suggestion of the Atlas Sales Representative, the 109 holes were drilled on 4-foot centers, employing a ROCKMASTER "16" pattern using up to the tenth milli-second delay detonator interval. The shot was fired with-

out mats, but not a single window was even rattled.

Local contractors were amazed not only by the lack of noise and vibration and the exceptional control over throw, but by the excellent fragmentation. Perhaps the best testimonial to ROCKMASTER "16" came from a fireman on duty across the street who said he was upstairs at the time and didn't realize the blast had been fired.

This is typical of the results blasters are getting with the ROCKMASTER "16" Blasting System in construction, stripping, mining, and quarrying... on the surface and underground. Perhaps, this milli-second delay blasting system is the answer to your blasting problems. So send for your copy of the ROCKMASTER "16" booklet—it's free.

ROCKMASTER: Reg. U.S. Pat. Off.

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» WHEN, as under today's conditions, spare or replacement parts are hard to get, yet demands on equipment are more severe than is usual, efficiency in maintenance is paramount. Arc welding is standard practice in maintenance of contracting equipment, but new electrodes, new procedures and techniques are constantly developing out of experience in its use which increase the efficiency of the process.

Described briefly here are suggestions for making better repairs through arc weld surfacing.

Materials used for surfacing can be classed according to analysis of core wire: tungsten carbide, chromium carbide, semi-austenitic, manganese, stainless steel, and medium and high carbon. Proper selection of materials to use depends on an accurate analysis of the service requirements of the job. The type of wear present in the service must be determined. Is it abrasion? Is it impact? Or is it a combination of both and in what proportions? With a knowledge of the service required and the cost of surfacing plus a careful inspection of worn parts to guide these decisions, a correct application of surfacing can be made.

Selecting Proper Material

In many cases the surfacing job has some restrictions that assist in the selection of the best surfacing material. For example:

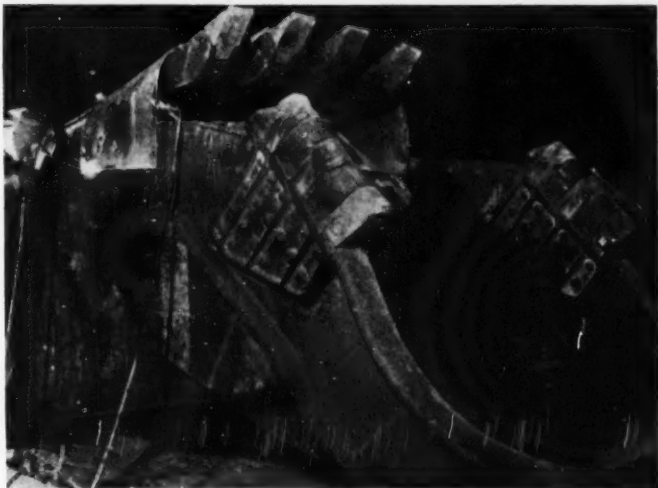
1. The weld must be machinable as welded. This restriction narrows the field of materials to one or two electrodes of the high carbon or

Repairs by Arc Welding

• Maintenance Held Paramount in View of Shortage

By A. W. Sawyer

The Lincoln Electric Company, Cleveland, Ohio



When the lip section on a dragline bucket is badly worn, the old one is cut out and a new piece of manganese steel welded in as shown above. Joints are butt welded, first three passes with a stainless electrode, then finished with a low-hydrogen type.

The lip of a dipper can be built up with beads of a semi-austenitic electrode, and new lip sections can be welded in when wear or breakage is beyond repair by surfacing.

Dipper teeth can be repaired by hardfacing all over with beads of semi-austenitic work hardening material. When the service conditions impose only mild impact, a final bead of tungsten carbide on the edge of the teeth will provide a self-sharpening edge highly resistant to abrasion.



Badly worn pinion gears like the one at left above are built up with a high carbon type of electrode and ground to shape.

The photograph at right shows parts from an asphalt spreader which have been hardfaced by the application of cast iron electrode. The user states that it is more effective to deposit the cast iron radially in beds than in an all-over surface.

Worn sprockets are built up with a medium carbon type electrode.



Here's How to DIG A HOLE in the middle of a RIVER... *"IN THE DRY"*



A Moretrench Wellpoint System controls 17 feet of water while Luther A. Turner and Sons, Contractors, Austin, excavate to rock for piers for Brazos River Bridge in Waco, Texas.

When water gets in *your* way, let us help you out with a wellpoint system that gets results every time! Our catalog explains how. Write for your copy.

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medium carbon low alloy type.

2. The part or deposit is to be hot forged. This restriction eliminates the tungsten carbide and chromium carbide types.

3. A cutting edge is required for cutting or turning steel. A tool steel electrode or high speed steel electrode must be used to obtain high hardness and high edge strength.

4. The deposit is to be machined. It may be annealed after welding, but then must be hardened by heat treatment. Possible electrodes are high carbon, tool steel and some of the medium carbon low alloy types. Others are automatically eliminated.

5. Maximum resistance to grinding abrasion. Use one of the tungsten carbide group.

6. High resistance to grinding abrasion but lower cost than tungsten carbide. Use an electrode from the chromium carbide group.

7. Self sharpening and work hardening edge desired. Use a semi-austenitic electrode.

Extra-Tough Material Safest

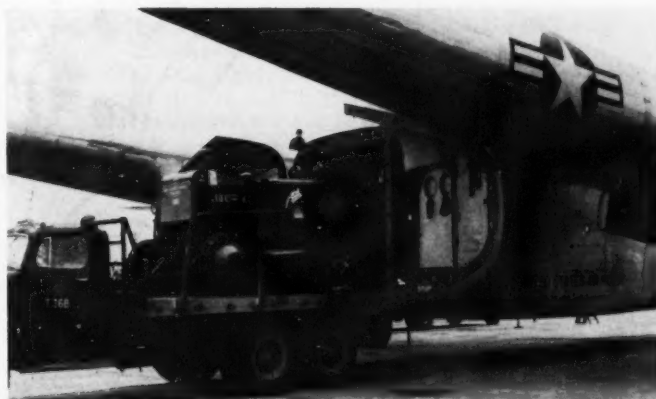
It should always be remembered that it may be possible to change the restrictions affecting a job by changing service conditions or treatment of the weld. For example, machining may be eliminated by using a different electrode and grinding the finish.

In cases where it is impossible to analyze carefully the service conditions, it is always on the safe side to choose a material tougher than is thought to be required. A surface that is not tough enough will be knocked off. A surface that is tough even though lower in abrasion resistance will at least offer a good resistance to scratching and rubbing and do more than the material that is hard, but not tough enough to remain on the part.

Airborne Tractor Needed

Lt. Col. David Hammond, chief of the engineering research and development division, U. S. Corps of Engineers, revealed recently the need for a high-speed, airborne tractor-bulldozer combination for military use.

The colonel, addressing the Society of Automotive Engineers' earthmoving industry conference in Peoria, said the new machine must be equipped with bulldozer and scraper and capable of traveling 25 miles per hour in operation and 35 on the road.



Equipment for New Mine Construction Flown over Labrador Wilderness

Equipment transportation reached a new high last month when the Iron Ore Company of Canada sent 15 big red International TD-14A crawler tractors deep into Labrador "bush country" via airlift.

A huge Fairchild C-119 "Flying Boxcar" has carried the big machines over 320 miles of wilderness to the new Knob Lake mining camp, one by one, in a two-hour trip that would take the fastest Indian guide six weeks.

Twelve other planes are ferrying in food and equipment to construction

camps at the mine site and to two railway camps pushing tracks northward through the empty wilderness. The 350-mile railroad and a dam to supply power for the mine are major construction projects. Working on both are the newly-arrived tractors, brought part way to the dam site across the ice, after their plane ride, and then floated across the remaining channels on rafts.

Construction and preparation costs will run to \$200 million before a ton of ore can be run from mine to market.



Caterpillar Instructs Soldiers in Earthmoving Technique

Three hundred U. S. Army Corps of Engineers soldiers at Fort Leonard Wood are receiving basic training in earthmoving principles and equipment use in classes like that above. Cater-

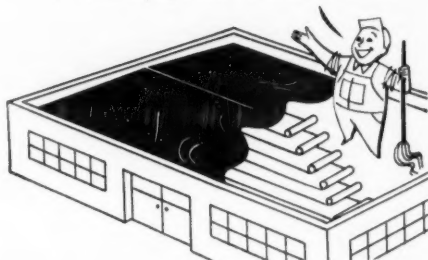
pillar Tractor Co. has furnished, not only the equipment, but also 14 instructors to train 1900 men in engineering and construction units throughout the country.



"...and Asbestile® Flashings
give added protection!"

"There's a Johns-Manville
Built-Up Roof!"

"Right! It's smooth-surfaced—
has fireproof, asbestos felts"



Yes—it's a Flexstone* Roof

Each ply is a flexible covering of stone!

● The secret of a Johns-Manville Flexstone Built-Up Roof is in the felts. They're made of fireproof, rotproof, enduring *asbestos*.

Give your customers that kind of all-out roofing protection.

The felts are perforated to make application easier... give a smoother job and conform better to irregularities in the roof deck.

Send for your *free* copy of the new J-M Specification Manual on Built-Up Roofs... smooth-surfaced or gravel-surfaced... for any type of deck—wood, steel, concrete, or gypsum. Includes specifications for Asbestile® Flashing. Write Johns-Manville, Box 158, Dept. AM, New York 16, N. Y.



*Reg. U. S. Pat. Off.



Johns-Manville **FLEXSTONE** Built-Up Roofs

ASBESTOS CORRUGATED TRANSITE* • ACOUSTICAL CEILINGS

DECORATIVE FLOORS • MOVABLE WALLS • ETC.

» THERE is no general serious shortage of steel, and the time is approaching when there may be more production than can be absorbed.

These were the general conclusions of executives attending the recent 59th annual meeting of the American Iron and Steel Institute in New York.

Nearly 90 per cent of the record breaking steel output in prospect for the third quarter of this year will be for uses normally regarded as part of the country's civilian economy, President Walter S. Tower stated in his annual address. He said:

"The best estimate of direct military use of steel during the third quarter of 1951 is about 700,000 tons of finished rolled products per month. This is less than one-eighth of prospective supply."

Present productive capacity of the steel industry is more than 100 million ingot tons per year. Present plans call for enough added steel making capacity within the next 18 months to bring the industry total above 118 million tons, he said.

At the beginning of the defense program of 1940 the steel industry produced 67 million ingot tons during the year. Production increased during the war years to a peak of 89.6 million tons in 1944.

During 1950 alone production capacity was increased by 4.8 million tons raising the annual capacity to a record 104,229,650 tons. This is a gain of nearly 28 per cent since 1940.

Currently steel is being poured at the rate of more than 107 million tons for 1951, and new steelmaking capacity is being added on a scale never equalled before. He added:

"If there is any real ground for present concern, it is not how much steel may be left in the free market, but it is the grave question of what

The first important contribution to construction methods by the Structural Clay Products Research Foundation's \$1¼ million program is a new type insulated cavity masonry wall now being developed.

Because the wall needs no furring, lathing nor plastering on the interior surface, and because of the ease of installing low-cost insulation material, the wall appears to be substantially cheaper than other types.

Insulation material, specially developed by the Owens-Corning Fiberglas Corp., is a fibrous type which can be poured into the cavity.

Iron, Steel Heads Predict Steel Surplus

• Only One Eighth of 3rd Quarter Production for Defense

may be done to us by prolonged bureaucratic controls imposed in the name of an emergency for which no ending is visible."

Regional Production

All six of the major steel making districts of the country are participating in the general increase in steel furnace capacity, reports by steel companies to the Institute reveal.

The Pittsburgh-Youngstown district, which includes most of the Ohio valley, will have a total annual steel capacity of 45 million tons in 1953, compared to 34.9 million tons at the start of 1939.

The Chicago district, which includes plants in Minnesota, Wisconsin, Missouri, Illinois and Indiana, will have a total capacity of 23.9 million tons in 1953, compared to 18 million tons in 1939.

The Cleveland-Detroit district, which includes Cleveland and Lorain in Ohio and Michigan, will have an annual capacity of 12 million tons in 1953, compared to 7.8 million tons in 1939.

The Western district, covering Colo-

rado and Pacific Coast states, will have annual capacity of nearly 6.7 million tons in 1953, compared to 2.1 million tons at the start of 1939.

The Southern district, including Virginia, Tennessee, Alabama, Georgia, Oklahoma and Texas, will have annual capacity of 6 million tons in 1953, compared to 2.8 in 1939.

The Eastern district, embracing Maryland, Delaware, New Jersey, New York, Connecticut, Massachusetts, Rhode Island and Eastern Pennsylvania, will have annual capacity of 24.2 million tons in 1953, compared to 16.1 in 1939.

Scrap Shortage

Prompt action by industry generally is required to prevent a scrap shortage, the Mobilization Committee for Iron and Steel Scrap of the industry has warned. Chairman Robert W. Wolcott has stated:

"Our national inventory of scrap has declined to low levels, while foundries as well as steel mills are consuming scrap at a record rate for unprecedented defense and civilian demands."



Cement Expansion Program Booms

Cement production capacity is expanding rapidly. In 1946 industry shipments totaled 170 million barrels. New capacity has been added so that the industry will be capable of shipping 240 million barrels in 1951; by the end of the year will reach a potential of 250 million barrels. The new Lone Star Cement Corporation plant near Roanoke, Virginia (above) is

just getting into full production of 4,000 barrels per day. Raw materials travel approximately 1½ miles in the highly mechanized production process. The plant was built by the Walsh Construction Co. and Ralph E. Mills Co. Silos were by Macdonald Engineering Co. The Walsh company also built the railway line to connect with the Norfolk & Western Railway.

Form Upper Peninsula Michigan Chapter

• Midwest Organization Becomes 113th A.G.C. Affiliate

» ESTABLISHMENT of the Upper Peninsula Michigan Chapter of the Associated General Contractors of America is nearing completion.

During a recent meeting in Ishpeming, Michigan, sponsored by

Echlin M. Kaake, MacDonald & Kaake, Inc., Marquette, a small group of building contractors in the Upper Peninsula area heard Burt L. Knowles, engineer adviser of the national A.G.C. staff in Washington, describe func-

tions of national and chapter organizations.

Mr. Knowles stressed the great importance of the association and its aid to the construction industry during this trying control period. No other source, he stated, could give as complete information on regulations affecting the industry. Members and chapters are informed of federal developments almost simultaneously with their occurrence.

Matters affecting the industry at the state level are reported through the chapters, he said.

Close cooperation with related industries and groups is maintained through joint committees, Mr. Knowles concluded. These include equipment manufacturers and distributors, producers of building materials, architects, engineers, state highway and aviation officials, and insurance carriers.

Officers of the nascent chapter are: president pro tem, Herman Gundlach, Herman Gundlach, Inc., Houghton; secretary-treasurer pro tem, Robert E. Dodd, Cox-Dodd Construction Company, Sault Ste. Marie.

Members listed so far are: Erling Arntzen, Escanaba; Alfred Brandt, Escanaba; Construction Division, Champion, Inc., Iron Mountain; Cox-Dodd Construction Company, Sault Ste. Marie; Herman Gundlach, Inc., Houghton; Kaysner Construction Company, Sault Ste. Marie; Kielinen & Sons, Ishpeming; MacDonald & Kaake, Inc., Marquette; Frank Menze, Marquette; and Albert H. Salen, Menominee.

Headquarters for the new chapter have not yet been selected.

CUT COLUMN FORMING IN HALF WITH ROOS COLUMN CLAMPS



Just two units Both Alike



Larger Bars Give Greater Strength



FoolProof Impossible to put on Wrong



Contractors have stated that workmen can clamp two columns using Roos Column Clamps, in the time required to clamp only one column with a different type clamp.

On your next job, try this simple answer to your clamping problems. Roos Column Clamps save every time you use them.



Open Either Way



No Loose Parts

Wedges Chained to Clamps



Hammer only Needed to Tighten



Rooshors . . . for Saving • Safety • Speed

Rooshors are the proven favorite of contractors from coast to coast. They are instantly adjustable within their range of three sizes—8 ft. to 14 ft.; 7 ft. to 13 ft.; and, 5 ft. to 9 ft. Higher stories are readily shored with the Roos Extension Shore. Rooshors are sturdily constructed, completely safe, yet are light enough for one man to handle with ease.

Rooshors and Roos Column Clamps are available for rental from warehouse stocks in principal cities from coast to coast—for prompt service.

Write today for Bulletin 251



BAKER-ROOS, INC.

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Texas Highway Election

New officers of the Texas Highway Branch, A.G.C., were elected at a special meeting held June 11, in Austin.

W. H. Courson, Texas Bitulithic Company, Dallas, succeeds F. W. Heldenfels, Jr., Heldenfels Bros., Corpus Christi, as president.

Wayne D. Tiner, H. B. Zachry Company, San Antonio, was elected vice president. Charles H. Newell continues as secretary-treasurer.

New directors for the branch were elected in May. They are: Herman Brown, W. H. Courson, E. B. Cape, M. B. Killian, R. W. Kinney, Harry Newton, Jack Schwoppe, and Wayne Tiner. Mr. Heldenfels automatically became a ninth member.

RAYMOND

versus OLD MAN RIVER

Major link in the flood-control system on lower Mississippi River is the 4,200-foot Morganza Floodway Control Structure, 42 miles northwest of Baton Rouge, La. Its 125 bays will have diversion capacity of 600,000 sec.-ft. into spillway at flood stages.

DRIVING 3,700 RAYMOND PRECAST PILES FOR MORGANZA FLOODWAY CONTROL . . .

For the foundations Raymond is casting and driving 3,734 precast reinforced concrete piles, in lengths of 80 to 120 feet. 95 percent are being driven on 2-on-1 batter.

Preparations for this gigantic project included construction of a pile casting yard 1,000 feet long, traversed by 135-foot gantry crane—and building two of world's tallest piledrivers with 136-foot leads.

Raymond's performance on Morganza project is ample evidence of its ability to solve unusual problems efficiently and economically.

*Design and Construction under Supervision of
Col. Charles E. Holle, U.S.A., District Engineer,
New Orleans District, Corps of Engineers,
Department of the Army*

LEFT: No. 1 rig about to drive one of first piles. This Universal-type piledriver, designed by Raymond especially for this project, is probably world's tallest—has leads 136 feet high.

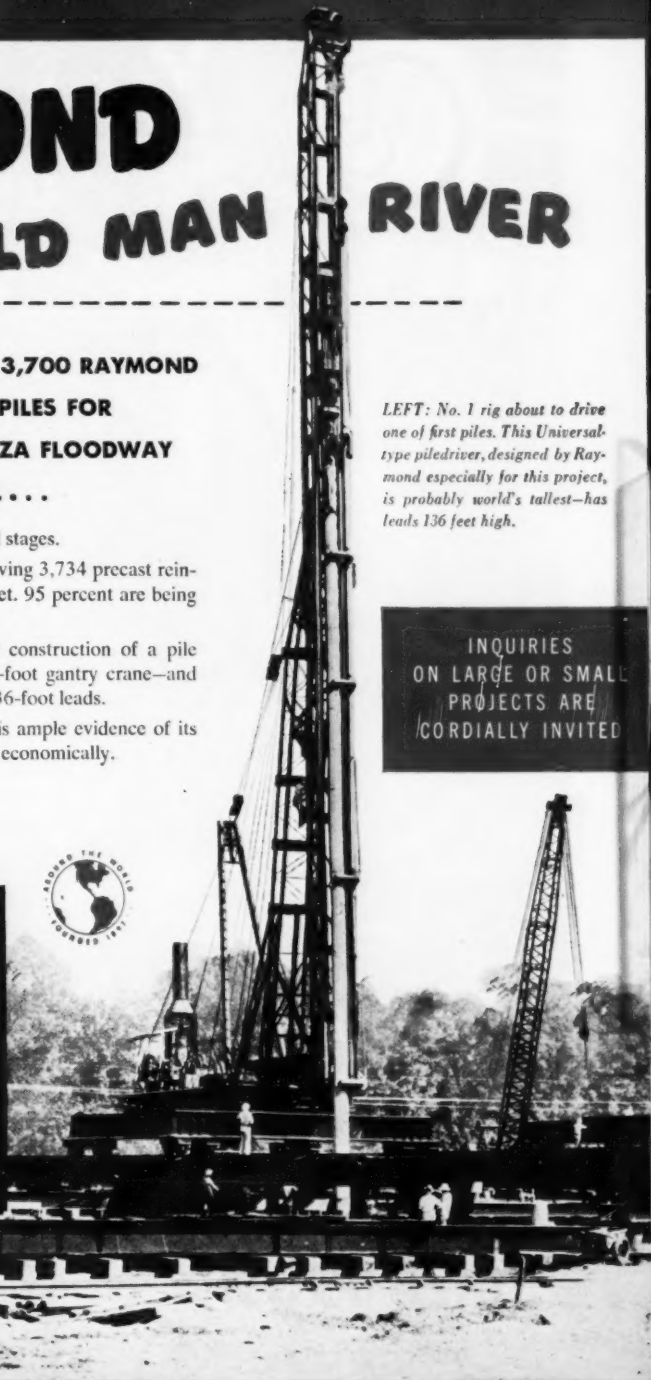
INQUIRIES
ON LARGE OR SMALL
PROJECTS ARE
CORDIALLY INVITED

RAYMOND

CONCRETE PILE COMPANY

140 Cedar Street, New York 6, N.Y.

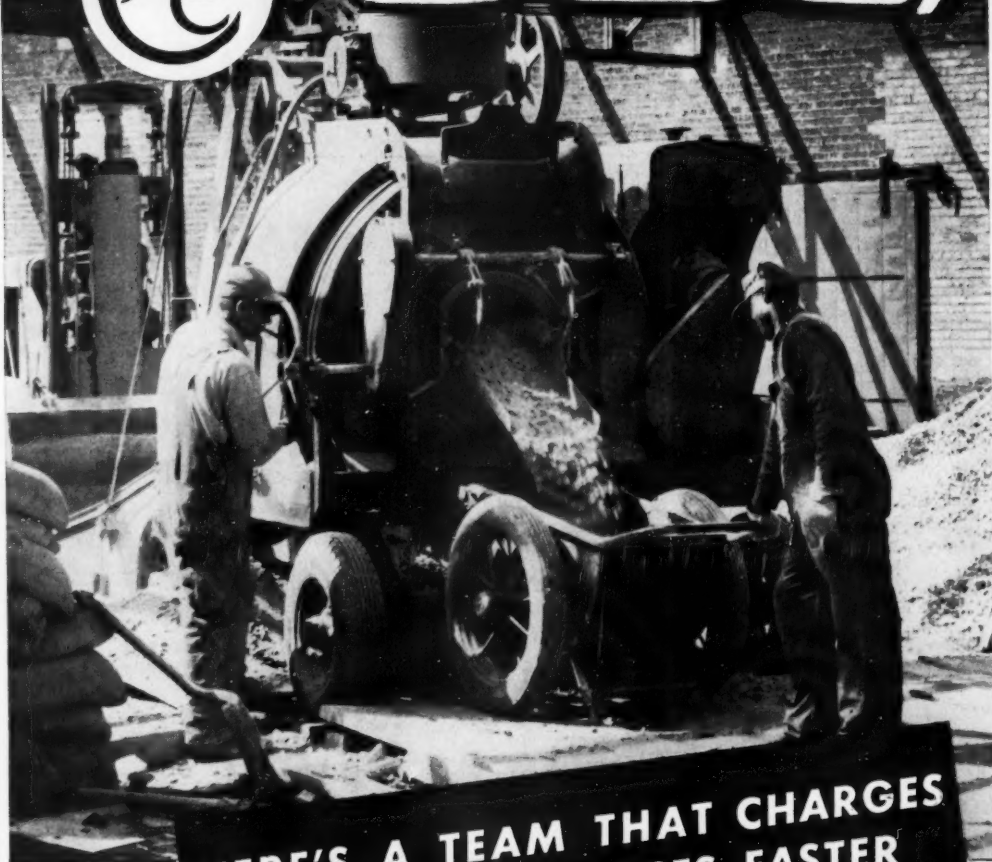
BRANCH OFFICES: Boston, Syracuse, Philadelphia, Baltimore, Washington, Pittsburgh, Atlanta, Miami, Houston, Kansas City, St. Louis, Cleveland, Chicago, Detroit, Salt Lake City, Portland, San Francisco, Oakland, Los Angeles and principal cities in Latin America.



THE SCOPE OF RAYMOND'S ACTIVITIES . . . includes, in addition to borings for soil investigation, every recognized type of foundation construction—concrete, composite, precast, steel, pipe and wood piles. Also caissons, underpinning, construction involving shore protection, shipbuilding facilities, harbor and river improvements, and cement-mortar lining of water, oil and gas pipelines 4" to 144" in diameter by Centrline Corp., a Raymond subsidiary.



Your Best Buy



**HERE'S A TEAM THAT CHARGES
- MIXES AND PLACES FASTER**

**The
QUALITY LINE
Since 1909**

This combination of a CMC 16S End Discharge 4 Wheel Trailer serviced by CMC DUMPOVER Carts backs up any high geared construction program to get the job done—better—faster—at lowest cost. Adding up to profit!

CONSTRUCTION MACHINERY CO'S.

in **EQUIPMENT** **..by any comparison** **QUALITY—PERFORMANCE—PRICE**

MIXERS

The Wonder 3½ Tilter is the original single opening tilter and still the outstanding value in the small job mixer field. Side or end discharge. Features the famous figure "8" mixing action. Other C.M.C. mixers up to giant 3 yarders.



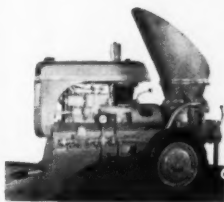
HOE TYPE MIXERS

Save men and money in mixing dry concrete, lime and cement mortar as well as patent plasters with hair or fibre. Also Hoe Type bituminous mixers in 6 and 10 cu. ft. sizes.



JETCRETE GUNS

Pneumatically shoots better concrete, faster. Two basic gun components available with or without compressor. Capacities up to 4 yards of unmixed aggregates per hour.



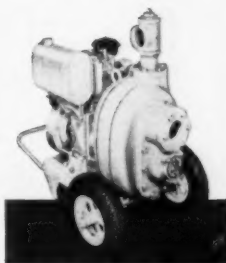
BATCHERS

Portable. The advantages of a central mixing plant anywhere. A money maker on bridge and road jobs, building construction and products plants operations.



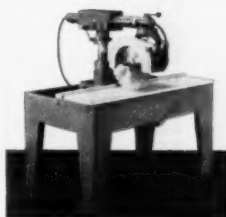
PUMPS

A complete line from 1½ to 10" Centrifugals with exclusive Dual Prime feature. Also high pressure pumps and 3 and 4" diaphragms. All C.M.C. pumps are famous for dependable service.



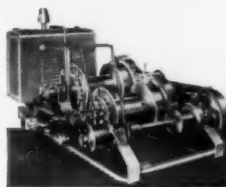
POWER SAWS

Radial saws in 3 and 5 H.P. sizes. Complete portable — planing mills. All controls within easy reach. High-speed CMC Kost Kutter table saws. Table tilts to 45°. Combination cross cut and rip blade. Cuts up to 4½".



HOISTS

More than 40 models in 5 drum sizes. General utility double drum with boom swinger is illustrated. The unique Roll-O-Hoist, which works like a ladder on wheels, is also a CMC feature product.



For Further Information

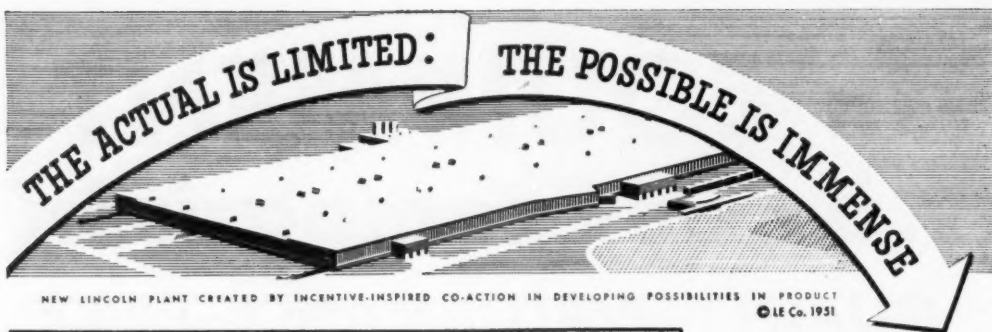
Consult Your Local



DISTRIBUTOR

or Write TODAY!

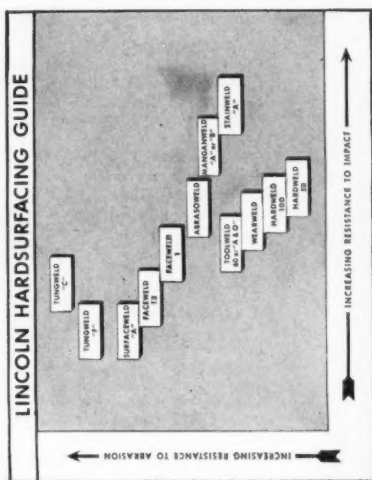
WATERLOO, IOWA



HARDSURFACING GUIDE FOR LONGER WEAR ... AT 30% LESS COST

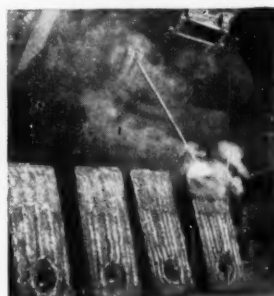
LINCOLN'S complete line of hard-surfacing electrodes are *priced at an average of 30% less* than other electrodes . . . yet out-perform any rods now on the market!

The chart shows Lincoln's 12 different types of electrodes, each designed for a specific range of service to resist abrasion and impact. These electrodes not only cut hardsurfacing costs but give superior wear resistance on all types of earth-moving and construction equipment.



Lincoln Hardsurfacing Guide quickly shows what type of electrode to use to best resist impact and abrasion. Ask for Bul. 466.

NEW LIFE FOR OLD TEETH



Hardsurfacing for Severe Abrasion. Dipper teeth are tipped with Lincoln "Tungweld" (tungsten carbide type) electrode. Lower beads on teeth are "Abraweld" for severe impact and moderate abrasion.

ONE SPROCKET DOES WORK OF FOUR



4 Times the Life is obtained by hardsurfacing worn teeth of power shovel sprockets with "Hardweld 100," reports Al Johnson Construction Co. on Pennsylvania flood control project.

**SEE HOW TO SAVE 30% ON
HARDSURFACING ELECTRODES**

Bulletin 466, Lincoln Weldirectory for Hardsurfacing, available.
Write on your letterhead to Dept. 509,

THE LINCOLN ELECTRIC COMPANY
CLEVELAND 1, OHIO

Trophy Winners Get Plaques

Winners of A.G.C. accident prevention awards during the 15-year period from 1931 to 1946 have been given plaques identical to those given first-place winners during the past five years to provide them permanent evidence of their accomplishment in the field of safety.

Prior to 1946, winners were awarded trophies which they were permitted to keep for only one year. In 1950, the Accident Prevention Committee recommended that all winners of these traveling trophies be given bronze plaques.

These plaques have been sent to the following:

Winners of the Shackelford Trophy—Building Division, are Vappi & Company, Inc., Cambridge, Massachusetts, 1937 and 1940; Henry J. Spicker Company, Toledo, 1939; Cleveland Construction Company, Cleveland, 1941 and 1944; H. B. Alexander & Son, Inc., Harrisburg, Pennsylvania, 1942; Woermann Construction Company, St. Louis, 1943; and Couse & Westphal, Detroit, 1946.

Winners of the Zachry Trophy—Highway Division, are James Spencer & Son Construction Company, Alvord, Texas, 1937; Pittsburgh-Des Moines Steel Company, Des Moines, 1938; Harrison Construction Company, Pittsburgh, 1940; A. J. Baltes, Inc., Norwalk, Ohio, 1944; and Herbert Reese, Greenbush, Minnesota, 1945.

Winners of the Swenson Trophy—Heavy Division are Winston Bros. Company, Minneapolis, 1937 and 1938; C. R. Meyer & Sons Company, Oshkosh, Wisconsin, 1939; J. A. Terteling & Sons, Inc., Boise, 1940 and 1941; Burrell Construction & Supply Company, New Kensington, Pennsylvania, 1942; and W. H. Ellis & Son Company, East Boston, 1943.

Winners of the Goble Cup are Fruin-Colnon Contracting Company, St. Louis, 1932; Aberthaw Company, Boston, 1933; E. J. Cross Company, Worcester, Mass., 1934; and Forecum-James Company, Dyersburg, Tennessee, 1935.

Winners of the Horst Cup are George H. Rommel Company, Louisville, 1931; H. Schmitt & Son, Inc., Milwaukee, 1932; Charles R. Wermuth & Son, Inc., Fort Wayne, Indiana, 1934; and Walbridge, Aldinger Company, Detroit, 1936.

Construction Accident Costs High in '51

• Small Operator Told Safety Program Cuts Expenses

» THE DIRECT and indirect costs of construction accidents in 1951 will run into hundreds of millions of dollars, according to the National Safety Council.

During this year it is estimated that of every 1,000 construction workers, one will be killed and 60 will be injured on the job.

The council points out that the indirect costs of these accidents will exceed the direct costs by about 4.5 to 1, and gives the following data from a typical job on which there were 72 accidents:

Total direct costs were \$209; total indirect costs were \$937. Details of indirect costs were: time lost by injured employees, \$116; time lost by fellow employees, \$310; time lost by executives, \$78; property damage, \$158; forfeits for failure to complete job on time, \$200; and overhead loss, \$75.

The staggering price paid in lives and money to accomplish this nation's yearly construction programs could be greatly reduced if construction firms would take a more active interest in their safety programs.

A good accident prevention program

improves workers' morale, reduces turnover, and creates public good will, the council points out. The small operator with less than 100 workers, who is responsible for more than two-thirds of all industrial injuries, should wake up to the fact that a good safety program is not expensive.

The council advises that a costly staff is not necessary. Special assistance for solving safety problems is available from insurance carriers and their associations; state and federal departments of labor, trade, and industry; professional associations and the National Safety Council.

One Person Responsible

One person should be assigned responsibility for the organization's safety. This person should see that safe conditions are provided for workers, equipment, and materials. He should make regular safety inspections, give safety instructions to workers and cultivate their interest in safety.

These were the basic points described in the National Safety Council's latest publication, *Safety Pays the Smaller Business*.



Based on its activity in the field of accident prevention in the construction industry last year, *The Constructor* was presented the above award in a non-competitive contest for information media.

» MANY A.G.C. chapters have been conducting local ceremonies to present awards won by their members in the 1950 national accident prevention contest sponsored by the association.

To spark the Pennsylvania Builders Chapter's recent affair, John Monaghan, American GI who gained publicity as manager of England's picture star James Mason, participated.

Awards were presented to the Berretta Construction Company, Exeter, and to the Upton-Lang Company, Erie, for no lost-time accidents during the year; and to H. B. Alexander & Son, Inc., Harrisburg, for the best 10-year record in the association's Building Contractors' Division.

A.G.C. Safety Awards Presented Locally



Above, at Pennsylvania ceremony: H. B. Alexander, H. B. Alexander & Son, Inc., chairman of the A.G.C. Accident Prevention Committee; R. D. Cremer, vice president, L. H. Foelt & Son, Inc., Reading, and president of the Chapter; Wallace Alexander, vice president, H. B. Alexander & Son, Inc.; John Monaghan, Hollywood screen writer; Ralph M. Ritter, chairman, Chapter Accident Prevention Committee; C. R. Austin, Upton-Lang Company; and Adolph Berretta, Berretta Construction Company.

Minnesota Presentation

Safety awards were presented at a ceremony of the Minneapolis and St. Paul Builders' Divisions of the A.G.C. of Minnesota.

In the pictures at right, National Director C. T. Naugel presents first place award for firms having above-average exposure in the Building Division to Britton A. Goetze, Madsen Construction Company, Minneapolis (left-hand photo); and certificate for no lost-time accidents to Alvin R. Jensen, Jensen Construction Company, Minneapolis.



Firm _____

WHAT TO DO IN CASE OF AN ACCIDENT

1. In the event an employee needs medical attention only, he should be sent to Dr. _____
2. If the injured employee suffers an eye injury, he should be sent to Dr. _____
3. If the accident indicates hospitalization, the injured employee should be sent to _____ Hospital. In any case, Dr. _____ should be called so that he can arrange for emergency treatment needed.
4. In the event an employee suffers an accident requiring artificial resuscitation, call _____
5. In case ambulance service is needed, call _____
6. In all serious cases, after the above instructions have been followed, call _____

Drive Safely -:- Work Safely
Texas Highway Branch, Associated General Contractors

Windshield Sticker Serves as Safety Aid

Prompt handling of injuries was the result of using the above windshield sticker on every vehicle on the job, reports Brown & Root, Inc., A.G.C., Houston, creator of this practical safety step.

The idea has been picked up by the Texas Highway Branch, of which Brown & Root is a member, and a supply of the stickers has been printed for other chapter members who may want to use them. Price—one penny.

Safety Dinner Largest Yet

More than 350 superintendents, foremen, company representatives and guests attended the bi-annual accident prevention dinner of the Constructors Association of Western Pennsylvania, A.G.C., held recently.

This largest group ever to attend the safety dinner heard a talk by Carl J. Jacobsen, chairman of the Chapter's Accident Prevention Committee, who pointed out that these dinners were held to honor supervisory personnel of construction firms who had maintained notable safety conditions.

These men, he said, must continue their efforts to decrease the number of job injuries.

Speakers who preceded Mr. Jacobsen were: Samuel L. Abernathy, Allegheny County Safety Director; Levi Bird Duff, Allegheny County Director of Public Works; Ross Hill, of the Department of Labor and Industry; and Fred B. Kissel, District Safety Engineer, U. S. Corps of Engineers.

As an added feature, the men were taken to a major league ball game after dinner.

RENT

these cost-reducing
forms for concrete



Use this nationwide Form Rental and Engineering Service that saves costly Labor — Material — Time, when placing concrete for:

- Building Walls Foundations
- Tanks — Circular and Rectangular
- Water or Sewage Treatment Plants
- Bridges, Culverts and Box Tunnels

Standard units of Economy Forms are adaptable to a wide range of jobs. But where needed, special forms can be fabricated to specification.

ECONOMY FORMS CORP.

HOME OFFICE: DES MOINES, IOWA

DISTRICT SALES OFFICES:

Kansas City, Missouri
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Dallas, Texas
Los Angeles, California
Denver, Colorado

ECONOMY FORMS

METAL FORMS FOR CONCRETE CONSTRUCTION

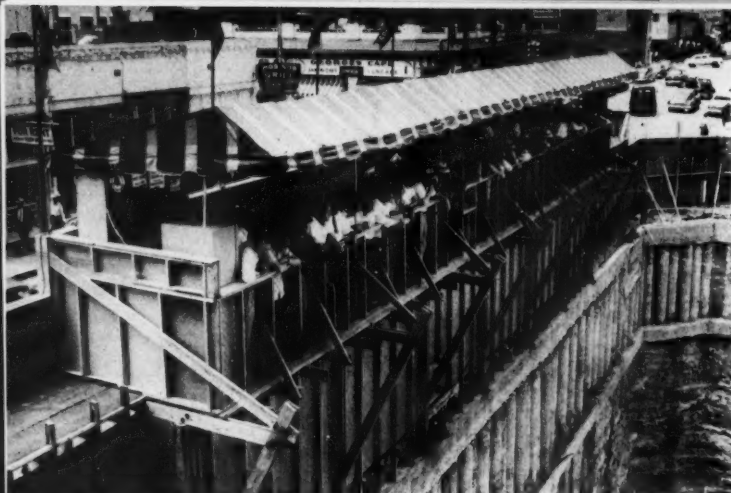
Sidewalk Observers Find Utopian Luxury

In frosty Minnesota or sunny Texas spectators who cluster on the fringes of two large construction projects to sate their curiosity, pass the time of day, or assist in the project's management can now carry on their various functions without tiresome shifting from one foot to another.

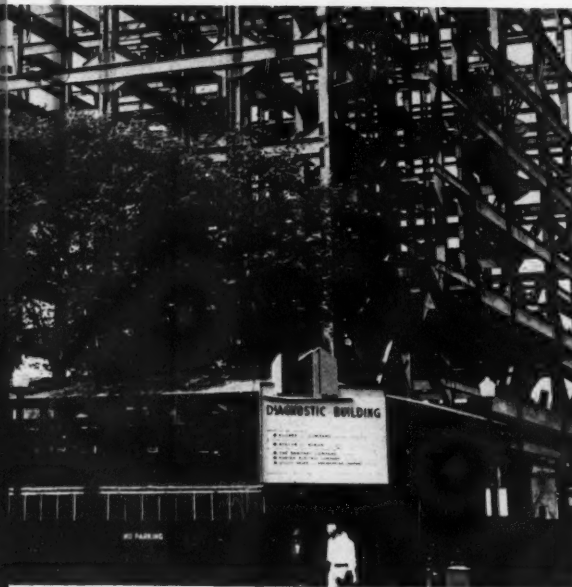
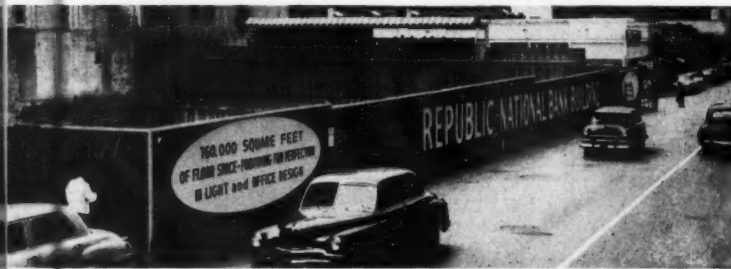
Spectators' pavilions have been provided at the sites of the Republic National Bank of Dallas and the diagnostic building of the Mayo Clinic, Rochester.

Daily, 750 people file up a flight of stairs to relax on 50 red plush-cushioned seats under a bright blue and yellow awning which shades the hot Texas sun, enjoy a cool drink provided by handy dispensing machines and turn a critical eye on the four-story-deep excavation for the ultra-modern Republic National Bank.

Nor is hospitality confined to the South, for spectators in and about Rochester, Minnesota, home of the renowned Mayo Clinic, are also afforded similar luxury in a bleacher at the site of the Clinic's diagnostic building which will be 10 stories high and cover a whole city block.



Above: Republic National Bank's sporty spectators' pavilion boasts colorful awnings, plush seats, and is decked with banners. Sign in lower photo apologizes because there is no room to build covered walkway for pedestrians.



Left: Pavilion at Mayo Clinic job in Rochester, Minnesota, being built by Stocke & Olson, A.G.C. Right: Dallas facilities include soft drink dispensers. Attendant hands spectator "SPEMBSE" card (Society for the Promotion and Encouragement of More and Better Sidewalk Engineers).



**30 POUND
PAVING BREAKER**
Model 17



**60 POUND
PAVING BREAKER**
Model 23



**70 POUND
PAVING BREAKER**
Model 24



**80 POUND
PAVING BREAKER**
Model 25



SPIKE DRIVERS
All Sizes



SHEETING DRIVER
Model 25S



**Standard Duty
BACKFILL TAMPER**
Model 55T



**Heavy Duty
BACKFILL TAMPER**
Model 66T



**Light Weight
CLAY DIGGER**
Model 412



**Heavy Duty
CLAY DIGGER**
Model 18



**Light Weight
TRENCH DIGGER**
Model 412T



**Heavy Duty
TRENCH DIGGER**
Model 19



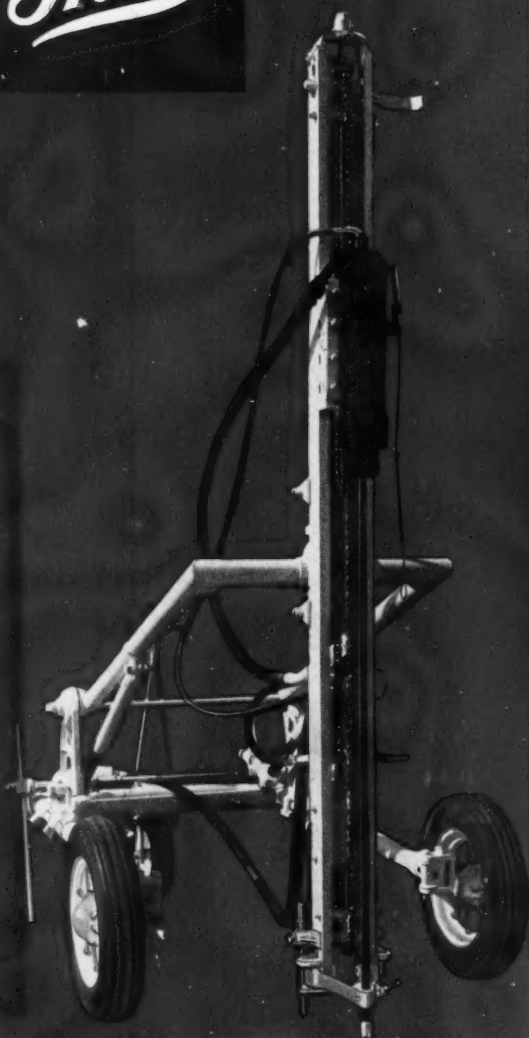
There is nothing of the famous
"big" breaker, champion of the
heavy hitters — is first choice
in construction tools for POWER
... for a complete line of tools
for every job.

Thor

... **PORTABLE POWER** ...

TOOLS

Thor



Here's Thor POWER — in the Thor Model 105 drifter, most powerful rock drill in the Thor line — mounted on a wagon rig that's designed for operation at all angles . . . equipped to feed and return rapidly, or as slow as two inches per minute! Tandem Mast Mounting (left) for pipe line drilling.



SUMP PUMPS
Two Models
Up to 160 Foot Heads



PIN DRIVER
Model 18



30 POUND SINKER
Model 28



35 POUND SINKER
Two Models



45 POUND SINKER
Model 38



POWER FEED DRIFTER MOUNTING



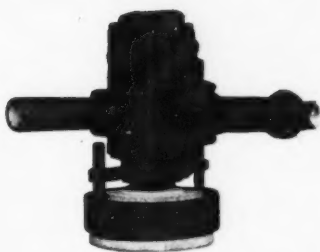
3" AND 3½" DRIFTERS



AIR BAR FEED
Converts Drifters and Sinkers to Power Feed Drifting



**PNEUMATIC
CONCRETE VIBRATOR**
Model 521



CONCRETE GRINDERS
Four Models



**CEMENT
CHIPPING HAMMERS**
Five Sizes



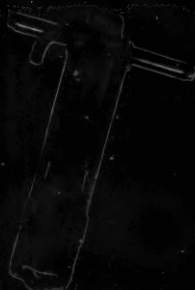
NAIL DRIVERS
Five Sizes



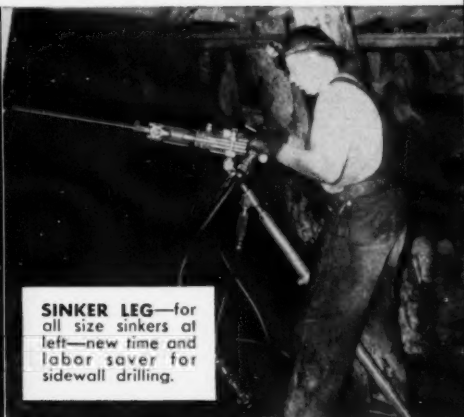
**55 POUND
SINKER**
Model 72



**55 POUND
SINKER**
Model 75



**80 POUND
SINKER**
Model 85B



SINKER LEG—for
all size sinkers at
left—new time and
labor saver for
sidewall drilling.



STOPPERS
Six Sizes



STOPPER LEG
Converts Sinkers
To Stoppers



AIR COLUMNS
For Faster Drifter
and Stopper Setups

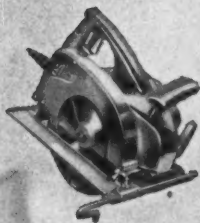


EARTH BORING TOOLS — These pneumatic
drills for driving augers or "fish tail" bits
in laying of gas and water lines, electric
cable and cable under paved roads,
alleys, driveways, etc. Also widely used
for down-hole drilling of post holes,
trenches, etc.

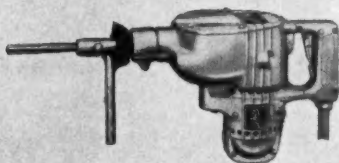
Thor

CONTRACTORS TOOLS

ELECTRIC



SAWS



HAMMERS



IMPACT WRENCHES



BELT SANDERS



TUCK POINTING
GRINDER

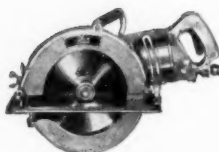


GRINDERS
AND SANDERS



DRILLS AND
DRILL STANDS

PNEUMATIC



SAWS



IMPACT WRENCHES



DRILLS



WOOD BORERS



RIVETING HAMMERS



RIVET BUSTERS



GRINDERS



WELD FLUX
SCALING HAMMERS

INDEPENDENT PNEUMATIC TOOL COMPANY

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BOSTON, MASS.
BUFFALO, N. Y.
CHICAGO, ILL.
CINCINNATI, OHIO
CLEVELAND, OHIO

DENVER, COLO.
DETROIT, MICH.
HOUSTON, TEXAS
LOS ANGELES, CALIF.
MILWAUKEE, WIS.
NEW YORK, N. Y.

PHILADELPHIA, PA.
PITTSBURGH, PA.
ST. LOUIS, MO.
ST. PAUL, MINN.
SALT LAKE CITY, UTAH
SAN FRANCISCO, CALIF.

SEATTLE, WASH.
TORONTO, ONT.
*
ENGLAND
MEXICO
SOUTH AFRICA

EXPORT DIVISION—NEW YORK, N. Y.—Cable Address THORTOOLS

THOR TOOL HEMISPHERE, INC., SÃO PAULO, BRAZIL

THOR TOOL CONTINENTAL, INC., ANTWERP, BELGIUM

How A.G.C. of Iowa Cracked Road Deadlock

• Highway Contractors Help Solve County Road Problem

» IT WAS NOT a fluke that won the annual Constructionizing Award for the Associated General Contractors of Iowa at the last A.G.C. convention. That chapter initiated and successfully completed a campaign last year that resulted in both an enviable record of road jobs and an opportunity to enlighten the people of Iowa on the benefits of the contract method.

The Iowa contractors were in the unique situation of having around \$60 million available for farm-to-market and secondary roads, but not enough projects up for bids to keep busy.

They took the problem in hand. A. D. Ludehoff, president of the Iowa chapter, called a group of the state's highway contractors to form a market development committee comprised of M. M. Schipper of Central Construction Co., Indianola, as chairman, and Don Kaser, Harry Hoak, A. F. Mathis, Griff Brogan, O. W. Crowley, executive secretary of the chapter, and Don McLean, assistant secretary.

This group studied individual counties and soon discovered which were the farthest behind in road lettings.

These were picked as targets of special planning. The public relations firm of Minecough and Friedman was engaged to expedite the program.

Editors of local papers were approached and from them frank appraisals of county road needs were obtained. In return, the newspapermen were surprised to learn how much money was available for roads.

Next, the county engineers were approached. They were found to be overloaded with work, preparing surveys and plans, acquiring rights-of-way and handling all the details of personnel for day-work crews. Some were bogged down maintaining county-owned equipment at a cost far beyond original estimations.

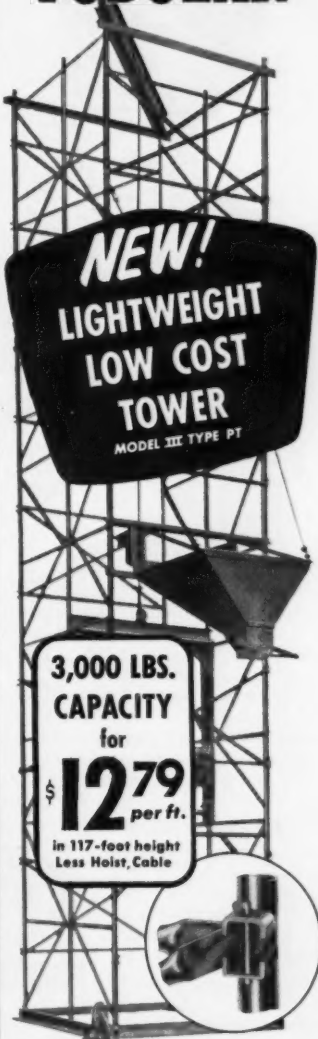
When the problems were thoroughly examined, the chapter began to publicize the need for secondary roads. They first advised the governor and state highway commission of their public relations plan. These men approved and subsequently supported it.

All Iowa A.G.C. highway contractors adopted a standard sign. The same sign was featured later in news-



Exhibit Displaying Iowa A.G.C.'s Top-Notch Publicity Program

AMERICAN TUBULAR



Here's really more for your money in a panel-type tower. Lightweight tubular steel quick to erect (especially in confined places) — is completely assembled with only 11 simplified component parts. Because it's built out of prefabricated panels with integral notch locking mechanism, it requires no bolts or nuts for braces and girts. Available with material platform or concrete bucket and hopper (as shown).

Send for descriptive brochure.
AMERICAN TUBULAR ELEVATOR COMPANY

910 North St., ZELIENOPLE, PA.

Division of UNIVERSAL MANUFACTURING CORP.



**"Good treatment?
I'LL SAY!"**

***"The Employers Mutuals Claim Man
knew his stuff—and did it!"***

"It's great to be back on the job so soon after my accident. I *wouldn't* have been, if it weren't for the Employers Mutuals folks. Their claim man was right on the job to see that I got the best possible care—both in the hospital and later.

"And my compensation checks came regular as clock-work. The Boss knew what he was doing when he picked Employers Mutuals to handle his insurance—those people treat a guy like a human being!"

Friendly, considerate claim handling—often entailing service above and beyond contractual obligations—is an everyday part of Employers Mutuals' famed "Performance in Action." Every policyholder-owner... and all protected under each policy... benefits by the "teamwork" of the Employers Mutuals claim man, safety

engineer, sales representative, underwriter and others serving his organization. Results? Fewer accidents, better production, improved morale—and, in many cases, substantial savings in insurance costs! From coast to coast, our policyholders boast, "Employers Mutuals are good companies to do business with!"



The Employers Mutuals team

Employers Mutuals write: Workmen's Compensation—Public Liability—Automobile—Group Health and Accident—Burglary—Plate Glass—Fidelity Bonds—and other casualty insurance. Fire—Extended Coverage—Inland Marine—and allied lines. All policies are nonassessable.

**EMPLOYERS MUTUAL LIABILITY
INSURANCE COMPANY OF WISCONSIN
EMPLOYERS MUTUAL FIRE INSURANCE CO.**
Home Office: Wausau, Wis. • Offices in principal cities
Consult your telephone directory



**EMPLOYERS MUTUALS
of WAUSAU**

PUBLIC RELATIONS

paper ads throughout the counties in question, with "Build by Contract" as the central theme. Local road construction was urged and the contract method of building was stressed. The same papers were asked to print an editorial story dealing with jobs let, or to be let, in the county, the money available for more construction, mention of the supervisor and engineer and a statement from some authority that it takes around \$250,000 worth of equipment plus plenty of know-how to build good roads at low cost.

Usually, the road construction story on special county projects drew first page and a top headline—for one thing, because the editor had previously been contacted and he, too, knew that the most road for the least money was in the public interest.

As the campaign progressed, stories were written crediting engineers and supervisors for leading road projects. The facts that good roads could be built by contract and that the money for more was available were stressed.

The local contractor, his experienced staff and equipment investment on that project were described. Local readers, "told they were getting a lot of road for their money, drove out to see the equipment in operation... an impressive, convincing sight."

A summary of the combined efforts of the chapter and public relations firm shows such figures as these: stories and ads developed for 35 of Iowa's 99 counties, 133 stories and ads run on special building work within the county, approximately 1200 separate and distinct news stories run in the state's newspapers.

The results: road construction lettings, in almost all counties, broke records month by month.

Apparent from the Iowa study and subsequent public relations program is the fact that the public, generally, and newspapermen, particularly, are interested in good roads. It is a popular issue. Merchants see good roads carrying produce and purchasing power into town. County engineers like to plan good roads and are glad to see contractors build them.

Their adventure in public relations demonstrated that the contract method can be made attractive to people. The obstacles, financial, political, administrative or technical, which deprive a county of good roads can be grasped and the contractor's point of view becomes the public point of view in a publicity program that is honest and enlightening.

THE CONSTRUCTOR, JULY 1951



What could be simpler?

Operators, service crews, and the owner who pays the bill . . . all know the importance of simplicity. You can't afford to waste time tearing down unrelated parts every time some component needs service. But can a machine with the high production, speed and ruggedness of the Terra Cobra still be so simple? The men out on the job say that Wooldridge Cobras lick every rig in the dirt on this point. Right in the field, they can get at, lubricate, adjust or remove every important component . . . no fussing with unrelated parts. This accessibility applies to the dependable Cummins diesel, rugged clutch and transmission, heavy duty differential, away-from-dirt power control system, simply reeved cables, and all other functional units. Teamed up with extra

margins of built-in strength, *simplicity* keeps Cobras on the job for more hours of high-profit production — year in and year out. Have your Wooldridge Distributor go over a Cobra with you from bumper to push button, and you'll see what we mean.

WOOLDRIDGE MANUFACTURING COMPANY
Sunnyvale, Calif. • 5345 N. Winthrop Ave., Chicago 40, Ill.

WOOLDRIDGE

BUILT FOR MORE PRODUCTION PER HOUR—MORE HOURS OF PRODUCTION

Puts itself up



NOBODY climbs anything, to erect the tower of the American Portable Material Elevator. The operator just moves a lever on his hoist, and the tower swings up into working position.

If you are still struggling with old-fashioned wooden scaffolds, think about this: the American Portable Material Elevator can be taken down, moved and set up again in much less than one day. Standard height is 47 feet—10' extensions take it to 97 feet. Big 6' x 6' platform carries two wheelbarrows or concrete buggies; self-dumping concrete bucket carries $\frac{1}{2}$ yard. Platform speed is 90 feet per minute.

For full information see your American Hoist distributor.



Modernize...economize...with
American Hoist
& Derrick Company
ST. PAUL 1, MINNESOTA

4 **Mail this coupon**
 American Hoist & Derrick Co.
 St. Paul 1, Minnesota

1251

● Please send catalog on the
**AMERICAN PORTABLE
 MATERIAL ELEVATOR**

NAME

COMPANY

ADDRESS

CITY STATE

» FAILURE of government authorities to enforce the requirement that all contractors bidding for government construction work be required to submit performance bonds prior to submitting bids is not in the public's best interest.

This was the theme of testimony presented last month by Burt L. Knowles, Engineer Adviser of The Associated General Contractors of America, to a sub-committee of the House Armed Services Committee.

For some 20 years the A.G.C. has taken the position that all bidders for government construction contracts should meet the requirements as set forth in standard bidding instructions or be disqualified.

Mr. Knowles pointed out that the result of not enforcing the requirement for a performance bond gave an opportunity to many irresponsible bidders to enter the bidding competition without fear of any loss whatsoever, and always a chance of making the low bid.

Some government officials have declared that it is in the interest of the

A. G. C. Asks Enforcement of Bid Rules

• Disqualification for Bidders Who Renege on Bonds

United States that the low bid be recognized, even though there has not been compliance with bidding instructions by the successful bidder.

Mr. Knowles asserted that this practice is unethical, and as a matter of principle, the Government should take the lead in promoting the established rules of competition as set up by administrative authorities themselves.

"The objection which our association has taken in behalf of the construction industry," Mr. Knowles said, "and which it has voiced frequently during many years, in letters to the Comptroller General of the United States, and to the government departments in charge of contracts, is that persons, often with no qualifications whatever, submit unsecured bids with the possibility of being low, and if they are, they either get financial backing to undertake the project themselves or share the undertaking."

"Thus, the bidder with the least re-

sponsibility is in a safe position, for if he is unable to perform the contract he can forget the matter, except for the slight possibility of a damage suit.

Confidence Impaired

"We believe it is in the interest of the United States to encourage bidding on government construction programs by the most responsible contractors in the industry, and we are sure that confidence in the Government's awarding authorities is impaired whenever contractors are exposed to discrimination in favor of those who submit irregular bids, and who do not observe the standard instructions. Fair and equitable treatment inspires confidence. Discrimination in favor of irregular bidders impairs confidence."

In conclusion, Mr. Knowles told the committee that the position of the A.G.C. was taken with regard only for the principles involved.

how white is white?

"...whiter than new snow
on a raven's back..."

Shakespeare



Use Trinity white—the whitest white cement.

Trinity white is a true portland cement. It meets all Federal and ASTM specifications. Use Trinity white for architectural concrete units, terrazzo, stucco, paint, ornamental work, tile setting, etc. Ask for it by its full name *Trinity white*.

Trinity Division, General Portland Cement Co.,
111 W. Monroe St., Chicago; Republic Bank Bldg., Dallas;
816 W. 5th St., Los Angeles.

Trinity White!

PORTLAND CEMENT

Marshall Asks \$6,561 Million Public Works

• Largest Military Construction Request Since '43

» TO MEET the construction needs of the armed forces, Congress has been requested to authorize \$6,561 million for installations in the United States and overseas.

Secretary of Defense Marshall, who submitted this request to the Armed Services Committees of both Houses on June 20, said that \$4.5 billion of the amount would be used for construction during the 1952 fiscal year.

The bill, largest of its type for Army, Navy, Air Force and Marine public works since 1943, is said to be needed for expanding the armed services to 3½ million men.

Funds to finance the large construction program were included in the President's recent request for \$60.6 billion for armed forces' expenditures during the next year.

Money for the three services would

be divided as follows: within the United States—Army, \$1,298 million; Navy, \$890 million; Air Force, \$2,034 million; overseas—Army, \$175 million; Navy, \$114 million; Air Force, \$415 million; joint projects—Army, \$41 million; Navy, \$10 million; Air Force, \$38 million; classified facilities—Army, \$302 million; Navy, \$126 million; Air Force, \$1,072 million; welfare and morale facilities—Army, \$15 million; Navy, \$5 million; Air Force, \$25 million.

Compared to Last Year

Of the \$4.5 billion asked as an appropriation, about \$800 million will be for authorizations still outstanding. During the 1951 fiscal year ending June 30, Congress authorized \$2,254 million for military construction.

House Passes Hospital Bill

Authorization of \$335 million for the construction of 24 new veterans hospitals and improvements to 14 existing hospitals was approved by the House last month when it sent H. R. 313 to the Senate.

This is the same hospital construction program passed by Congress in 1948 but vetoed by the President.

To aid over 21,000 veterans now awaiting hospitalization, the bill would direct the Veterans Administration to build hospital facilities with a capacity for 16,000 beds.

Authorization for the construction of the controversial Central Arizona Reclamation Project was passed by the Senate last month and sent to the House.

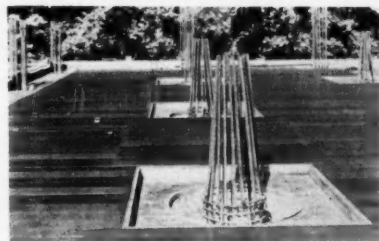
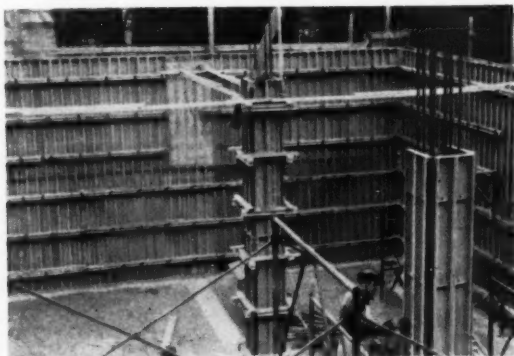
However, the Senate adopted an amendment which would prohibit any appropriation for the project until the end of the present national emergency.

ATLAS SPEED SYSTEM OF STEEL FORM CONSTRUCTION

Your Solution to High Priced Labor Speed Forms Cut Slab and Wall Form Costs

STEEL FORMS—Good for reuse again and again on job after job indefinitely without repair. Cut material costs way below wood.—Many records of 400-500 and more uses.

SPEED Steel Forms—Can be set up, stripped, cleaned and moved in way less time. . . . No heavy bracing needed.



The same forms can be used for walls, slabs, circular tanks, sewers, tunnels, manholes, etc.

Atlas Speed Steel Forms go together with wedge clips. . . . NO special fastenings or wrenches needed. NO studs on walls—Fewer posts and girts.

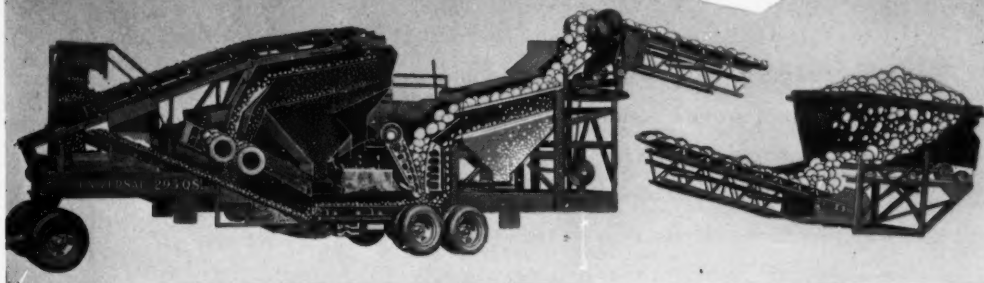
Let's talk it over. Just send us prints of the job. Glad to give you Layouts, Cost Studies and complete facts to fit your individual conditions. Supervision by specialists available at no extra cost to you. Write Department CR.

IRVINGTON FORM & TANK CORP.
20 Vesey Street • New York, N. Y.

Atlas Labor-Saving Concrete Forms for every Purpose

**FREE
AGGREGATE**
FOR BIGGER PAYLOADS
MORE PRODUCT COMBINATIONS

The **UNIVERSAL** 293QS TwinDual Gravel King

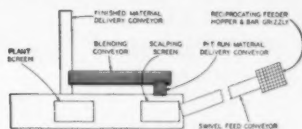


PRODUCT COMBINATIONS TO FIT A VARIETY OF JOBS

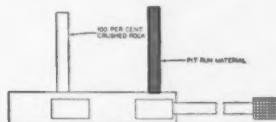
Universal gives you more tons per hour at less cost per ton with three full stages of crushing and two screens in the 293QS TwinDual Gravel King.

Pit run material of finished size is pre-screened and does not pass through the main plant. You get **Free Aggregate** which increases over-all production 50 to 100%. The main plant screen sizes crushed material only and is not burdened with natural finish. Top crushing capacity is provided by Universal's exclusive TwinDual Method which divides the crushing load between three crushing stages: First stage - 18" x 24" or 20" x 36" Jaw Crushers, Second and Third stages - 24" or 30" TwinDual Roll Crushers.

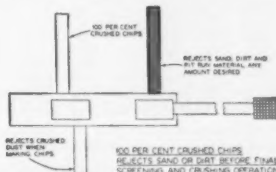
For those big jobs requiring volume production and a variety of finished product combinations, investigate the 293QS TwinDual Gravel King. Complete details in Bulletin No. U501. Write for your copy.



FOR PRODUCING ROAD AGGREGATE
BLEND FINISHED SIZE PIT RUN MATERIAL WITH CRUSHED MATERIAL



FOR PRODUCING 2 PRODUCTS SIMULTANEOUSLY
100 PER CENT CRUSHED ROCK AND SIZED PIT RUN MATERIAL



UNIVERSAL ENGINEERING CORP. division of PETTIBONE MULLIKEN CORP.

331 8th St., N.W., Cedar Rapids, Iowa
Phone 7105

4700 W. Division St., Chicago 51, Illinois
Phone SPaulding 2-9300





On the double

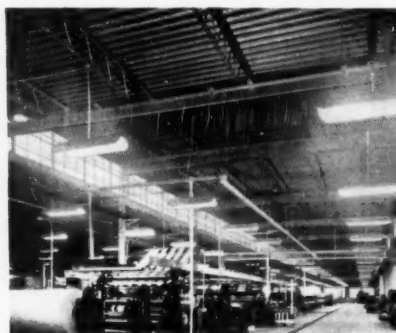
for Industrial Building

Saving Men...Money...Material

There's a double job facing building today that has to be done on the double. For the industrial plant of America must expand . . . to build our defenses . . . to provide a healthy economy at home. And yet we must save our vital resources of men, material . . . yes, money, too. And to help you meet this double demand, CECO offers a double-duty building service . . . two construction methods. Each is versatile enough to meet specialized building needs . . . efficient enough to use a minimum of critical resources . . . two types of joist construction—fire-resistive—each saving three big ways.



Meyer Steelform Construction uses little steel, provides long spans, maximum manufacturing area free of columns.



Ceco Steel Joists are practical as purlins in roofs of one story factories and plants. They can be quickly spaced and erected.

**CECO
STEEL**

In construction products **CECO ENGINEERING**





THE AUSTIN COMPANY, ENGINEERS & BUILDERS

HERE'S HOW CECO SAVES VITAL RESOURCES

CECO'S MEYER STEELFORM CONSTRUCTION

For Human Occupancy Buildings, light manufacturing plants, many other structures using any framing.

SAVES MEN because less time and labor are required to provide open wood centering and form work.

SAVES MONEY by saving concrete . . . the "dead load" is kept at a minimum. Also, less lumber is used.

SAVES MATERIAL because only a minimum of critically short steel is needed. Less concrete, too.

CECO'S STEEL JOIST CONSTRUCTION

For Human Occupancy Buildings and roofs of manufacturing and industrial plants using steel or masonry framing.

SAVES MEN because steel joists are light and easy to install. Special equipment and falsework are eliminated.

SAVES MONEY because steel joists are self-centering. The form work for the concrete slabs rests directly on the joists.

SAVES MATERIAL because the "dead load" is amazingly low. Supporting beams, columns and footings weigh less.

CECO STEEL PRODUCTS CORPORATION

General Offices: 5601 West 26th Street, Chicago 50, Illinois

Offices, warehouses and fabricating plants in principal cities

makes the big difference

* Ceco is the originator of the removable steelform method of concrete joist construction. Only Ceco manufactures steel joists in five plants strategically located throughout the nation. So look to Ceco . . . leader over all.



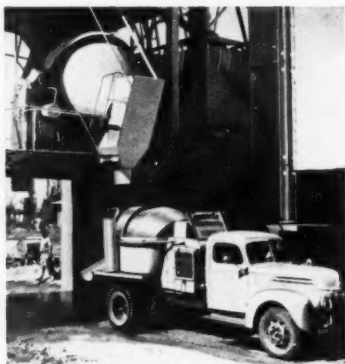
YOU SAVE 3 Ways with Smith-Mobile **LOAD LIMIT** models

MEET HIGHWAY WEIGHT LIMITS

with a Smith-Mobile LOADLIMIT Model. You can easily convert it to a Standard Smith-Mobile Truck Mixer or Agitator. And a Standard Model can easily be converted to a LOADLIMIT Model.



LOADLIMIT Models are available in 3, 4½, 5½ and 6½ yard sizes, with higher ratings for agitators. All carry NRMCA rating plates.



HERE'S a WINNING COMBINATION!

Smith Tilting Mixers and Smith-Mobile Agitators enable you to deliver better concrete with speed and certainty, at low cost. They have a record of achievement that has never been equaled in the industry.

- 1 LOWER INITIAL COST** — By eliminating parts and units not absolutely vital to mixer operation, price of mixer is greatly reduced. A less expensive LOADLIMIT Model can be mounted on a lighter truck, resulting in a further saving in initial investment.
- 2 LOWER OPERATING COSTS** — Less dead weight means bigger payloads without exceeding highway weight limits. A lightweight LOADLIMIT Model has less overall width, maneuvers more easily, travels faster. Discharge is easier since there is no closing door to open and close.
- 3 LOWER MAINTENANCE COSTS** — Replacements and repairs are seldom necessary. A LOADLIMIT Model has the same sturdy construction as a Standard Smith-Mobile and carries the same guarantee. With unnecessary parts removed, there is less to maintain. The closing door is eliminated. No seal troubles.

Ask your nearby Smith Distributor to give you all the LOADLIMIT facts.

THE T. L. SMITH COMPANY
2853 N. 32nd St., Milwaukee 45, Wis., U. S. A.

SMITH MOBILE

For BIGGER and BETTER Concrete Mixers and Truck Mixers Look to SMITH

LEGISLATION

Appropriations Status

With the passage of a \$514.4 million Army Civil Functions appropriation by the House, most 1952 money bills are now on the Senate side.

A cut of \$126.2 million in the Army Civil Functions bill, first recommended by the House Appropriations Committee, remained unchanged after House debate was completed and the measure was sent to the Senate.

The committee, in recommending reductions of \$58.5 million for rivers and harbors projects, and \$65.3 million for flood control, advised the Army Corps of Engineers to economize. No money for new projects was granted.

The House approved the following appropriations: for rivers and harbors projects, \$162.9 million; for flood control, general, \$268 million with an additional \$7 million for emergency repairs; flood control on the Mississippi, \$59 million; on the Sacramento River, California, \$1 million.

Other money provisions in the bill include \$421,000 for Panama Canal construction projects, and \$373,000 for new construction for the U. S. Soldiers' Home.

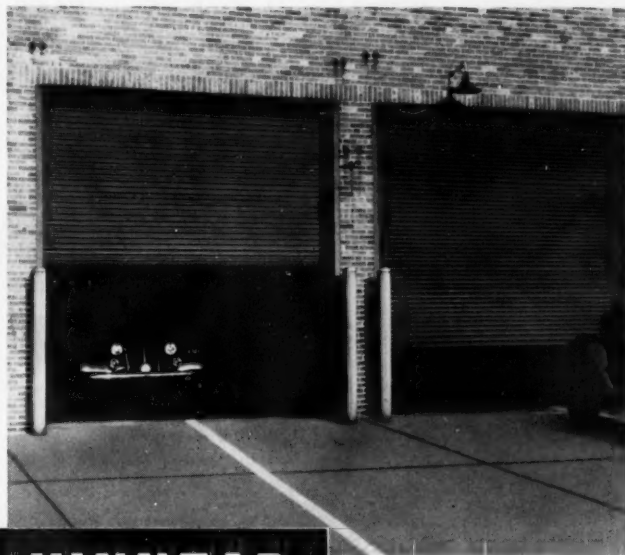
The Senate Appropriations Committee sliced \$112.9 million from the \$2.6 million appropriation as passed by the House, when it reported its recommendations for the Labor-Federal Security appropriation last month. The original request for the two departments and related independent agencies was \$2.7 billion.

Construction Statistics Restored

Counter to a House reduction of \$500,000 in funds for the Bureau of Labor Statistics which would have virtually ended construction research activities, the Senate committee increased the Bureau's appropriation by \$128,352 saying, "The increase, together with the amount budgeted for the foreign labor conditions statistics, is provided for the construction research statistics activity, which service has won wide recognition and this committee does not feel it could agree to its virtual abandonment."

Funds recommended by the committee for construction projects are: Office of Education, grants for surveys and school construction, \$75 million; Public Health Service, hospital construction, \$100 million liquidation cash and \$95 million obligation; and

OPEN WIDE



KINNEAR Rolling Doors Clear The Entire Opening

You get full use of all doorway space when you equip openings with Kinnear Rolling Doors. They clear the doorway completely—from jamb to jamb and from floor to lintel. Even the floor, wall and ceiling space *around* the doorway remains clear and usable at all times.

The doors rise straight upward, coiling above the lintel. Trucks, material, or equipment can be left within inches of the door

curtain, both inside and outside the entrance, without blocking door action in any way.

The rugged all-steel construction of Kinnear Rolling Doors assures an extra measure of protection against theft, intrusion, storm damage, and fire. Kinnear Rolling Doors are built any size, with manual, mechanical or motor operation. Write for complete information.

The KINNEAR Manufacturing Co.

650-80 Fields Avenue, Columbus 16, Ohio

1742 Yosemite Avenue, San Francisco 24, Calif.

Offices and Agents in All Principal Cities

**SAVING WAYS
IN DOORWAYS**

KINNEAR
ROLLING DOORS



ANOTHER BREAK IN THE DIKE!

Tough words to hear when you're battling a river on a rampage. But that's what happened during the recent disastrous floods on the Fraser River in British Columbia.

Perhaps you don't have to keep "rivers caged up," but that's an important job for Fraser River Pile Driving Co., Ltd. and their experience again proves the unusual mobility and handling ease of MICHIGAN cranes.

Says K. A. Matheson of the above company, "In the City of Mission on the Fraser River, the MICHIGAN cranes did a splendid job owing to their mobility and being able to get from one break in the dikes to another in very short order. In particular the TLDT-20 with remote control was a decided advantage, as it enabled us to do the same work with one less man when labor of this sort was badly needed on other flood-fighting work."

Regardless of your type of work, when you need an excavator-crane . . . investigate MICHIGAN . . . you'll agree it's your best buy!

MICHIGAN POWER SHOVEL COMPANY

485 Second Street, Benton Harbor, Michigan, U. S. A.

\$16.6 million for construction of research facilities.

The Senate sustained the cuts of its appropriations committee and also reduced the measure by another \$6 million. Conferees were expected to complete action on the bill before the end of June.

Independent Offices

Also expected to be sent from conference to the President by the end of last month was the Independent Offices appropriation for 1952. The House approval of \$6,144 million for the 27 agencies was increased to \$6,221 by the Senate Appropriations Committee and upped to \$6,400 million by the Senate. The original bill requested \$6,837 million.

The Senate increased to 50,000 the House limitation of 5,000 on the number of low-rent public housing units to be started in 1952. Original administration request was for 75,000.

Funds for construction projects included in the Independent Offices appropriation are: American Battle Monuments Commission, \$3 million for construction of memorials and cemeteries; General Services Administration, \$8.8 million for expansion of post office facilities, Chicago; Housing and Home Finance Agency, \$550,000 for advance planning of non-federal public works; National Advisory Committee for Aeronautics, \$25 million for laboratory construction and equipment; Veterans Administration, \$28 million for construction of hospital and domiciliary facilities; Maritime Activities, \$12.5 million for construction fund; and total Atomic Energy Commission appropriation, \$1,168 million of which an undetermined amount is for construction.

1951 Supplemental Appropriations

The third and fourth supplemental appropriations for fiscal 1951 were approved by the President on June 2, and May 31 respectively.

The third supplemental, P. L. 45, appropriates money for construction as follows: Federal Prison System, \$1.4 million improving facilities; Bureau of Public Roads, \$3.5 million for surveys, construction and maintenance of Tongass Forest highways, Alaska; Territories and Island Possessions, \$4 million for Alaska railroad construction; Office of Education, \$50 million for grants for surveys and school construction; Forest Service, \$3.3 million for forest development roads and

SUPERIOR CONTINUOUS THREADED COIL RODS



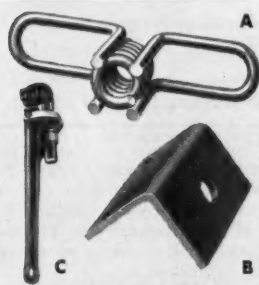
**MAKES
DIFFICULT
TYING JOBS
Easy**

Superior Continuous Threaded Coil Rods, with or without Coil Wing Nuts and Corner Brackets, are a valuable supplement to Superior Coil Ties and standard working parts when job conditions are unusual or difficult.

In three typical applications, shown at the right, these Continuous Threaded Rods are used; (1) to tie form corners; (2) as an anchor rod tie down and as coil bolts; and (3) as a coupling for two coil ties providing an adjustable form tie.

Available in $\frac{1}{2}$ ", $\frac{3}{4}$ ", and 1" diameters and in any length up to 10 ft., Superior Continuous Threaded Coil Rods in quantities can be cut to length on the job with a heavy-duty hand Coil Rod Cutter.

Superior Continuous Threaded Coil Rods are the answer to unusual or difficult tying problems. When you use Superior you are assured of the best in design, material, and workmanship.



A-COIL WING NUTS

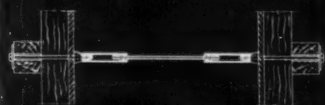
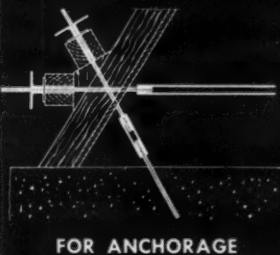
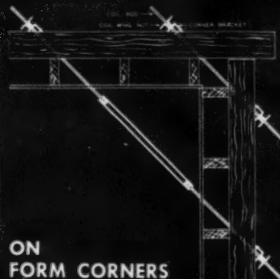
Coarse helix coils form the threads. Easily applied and removed from rod. Develops maximum capacity of rods.

B-CORNER BRACKET

An exclusive Superior feature. Provides simple, efficient method of tying form corners and bulkheads.

C-SPECIAL COIL ROD WRENCH

Heavy-duty Stillson type wrench with special jaws for gripping and turning Coil Rods with least damage to threads.



AS AN INTERNAL TIE
Two Coil Ties and a length of Coil Rod make an adjustable form tie and spreader.

SUPERIOR CONCRETE ACCESSORIES, INC.

4110 Wrightwood Avenue, Chicago 39, Illinois

New York Office: 1775 Broadway, New York 19, N.Y.

Pacific Coast Plant: 2100 Williams St., San Leandro, Calif.

**REQUEST A COPY OF OUR
NEW CATALOG 500 . . .**

It contains a valuable table for spacing studs, wales, and form ties.

18 ROLLER BEARINGS in UTIL STEERING ASSURES *EASIER HANDLING!*



Here's Why **MM**
is easier handling!

Precision made anti-friction bearings at all important points of the UTIL steering assembly, extra large molded rubber steering wheel, and front wheels inset over steering knuckle pins are exclusive UTIL design features. They help to make UTIL handle easier and permit the use of heavy-duty front-end loaders of maximum capacity.

The steering gear cam is ground to give increased leverage on turns—faster action on straight travel—*easier handling and more profitable operation on all jobs.*



Four heavy tapered roller bearings in front wheels, are but part of the quality construction that makes for easier handling. Six roller bearings in the heavy Ross gear, six rollers in the steering knuckles and two large rollers in the tie rods are quality features.

See your MM Dealer-Distributor or Write



MINNEAPOLIS-MOLINE
MINNEAPOLIS 1, MINNESOTA

LEGISLATION

trails; Bureau of Indian Affairs, \$3.7 million for additional construction.

The fourth supplemental, P. L. 43, appropriates funds for construction as follows: Navy, \$100 million for expansion of private plants, and \$17 million for new public works; Air Force, \$281.7 million for acquisition and construction of real property; and Bonneville Power Administration, \$9.7 million for additional construction.

A.G.C. Suggests Appeals

In a statement filed with the Senate Banking and Currency Committee while it was holding hearings on amendments to the Defense Production Act, H. E. Foreman, managing director of The Associated General Contractors of America, asked that a procedure be authorized for filing appeals to review actions taken by emergency agencies.

Mr. Foreman cited these points: (1) Effects of government regulations on the construction industry, which is basic to the national defense and maintenance of a sound economy, are important to the entire nation. (2) Delays in the administration of National Production Authority regulations have unnecessarily hampered the industry. (3) Generally, consultation by administrative officers with industry advisory committees and trade associations, as provided for in the Defense Production Act, has been ineffective. (4) Confusion over the effects of price controls on the construction industry has left general contractors uncertain as to proper charges for their services.

War Damage Bill Stymied

The bill to provide war damage insurance has been set aside by the Senate Banking and Currency Committee which has been burdened with investigation of the Reconstruction Finance Corporation and consideration of the Defense Production Act.

However, now that this business has been completed, early committee action on the war damage bill is expected by A.G.C. representatives who have been constantly urging that the bill be moved to the Senate floor. Hearings on the measure which would insure property damaged by enemy attack, have been concluded for several months.



Every construction job you begin has a varying number of new experiences which you can expect to encounter. The more you can do to minimize these "unknowns" the more likely you are to complete that contract as you estimated and planned it.

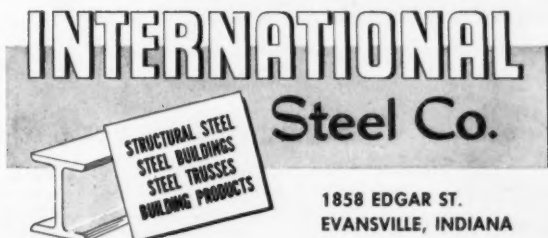
Selecting a responsible and experienced supplier of structural steel is one of the precautions you can take.

Customers of International Steel have learned to depend on us to interpret their blueprints correctly — to fabricate their structural requirements to the exact specifications — to deliver their steel as needed . . . in the proper sequence — to work with them to avoid money-wasting delays.

In these days when so much of our facilities are being used for defense and armament projects we cannot always meet "rush" delivery schedules. But in all other phases of service to our customers we will not compromise with the standards which have built this business.

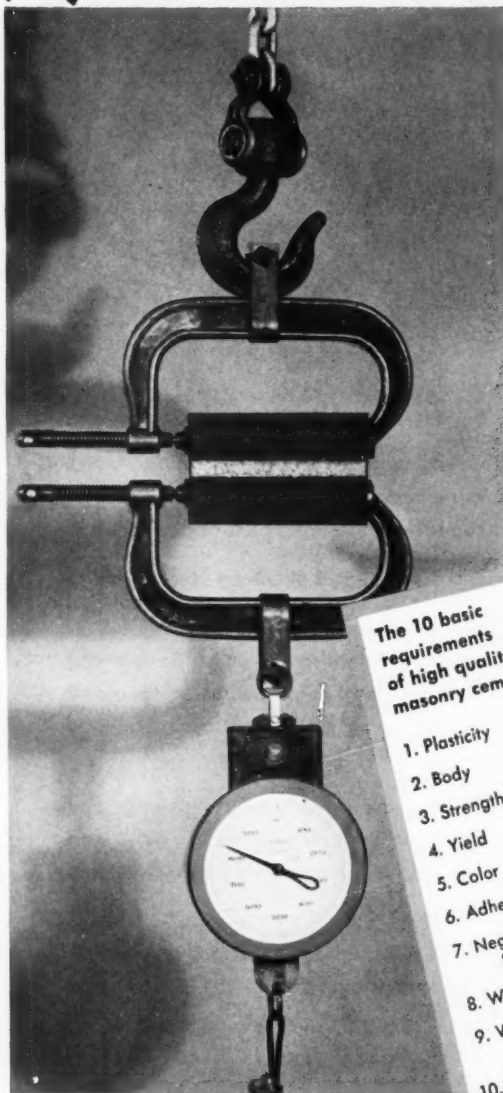
The growth of International Steel has been based on skilled and responsible service — service plus integrity . . . integrity that is reflected in the projects you build.

For your structural steel needs—think of International first.



1858 EDGAR ST.
EVANSVILLE, INDIANA

"Mortar is supposed to stick..."



George H. Smith, Jr.,
Illinois Local No. 21,
a bricklayer since 1917



"**AFTER ALL**, what good would mortar be if it didn't stick to the masonry units and hold them together—*firmly*? Well, that's something you don't have to worry about if you make the mortar with Marquette Masonry Cement. They tell me that Marquette meets or exceeds government and A.S.T.M. specifications for adhesion and bond. Well, I'm no laboratory expert, but I do know that mortar made with Marquette Masonry Cement makes a stronger, sturdier joint every single time.

"Everything you could want in a masonry cement you'll find in Marquette. It's better masonry cement in every way."

The 10 basic requirements of high quality masonry cement*

1. Plasticity
2. Body
3. Strength
4. Yield
5. Color
6. Adhesion & Bond
7. Negligible Shrinkage
8. Water Retention
9. Water Repellency
10. Non-efflorescing

*You get all 10 when you use Marquette!

MARQUETTE
Masonry
CEMENT



Marquette Cement Manufacturing Company

CHICAGO • ST. LOUIS • MEMPHIS • JACKSON, MISS.

PORTLAND • HIGH EARLY STRENGTH • AIR ENTRAINING • MASONRY

Any quantity of Marquette Masonry Cement will be shipped in mixed carloads with other types of Marquette Cement

» WORLD interest in American construction methods and the respect officials of other nations have for The Associated General Contractors of America is evidenced by the letters and visitors which come to the national staff offices from foreign lands.

General contractors in the United States are not the only ones who must counter advocates of the separate contract. *Undivided Responsibility, Key to Lower Construction Costs*, published and distributed by the A.G.C., has been requested by engineers, government officials and contractors of three continents.

Many European Visitors

Public officials and contracting firm representatives from most of the countries of Western Europe have come to the A.G.C. with questions about the association's structure and method of functioning. Many have been especially interested in the effectiveness and form of joint cooperative committees. Contract forms, apprentice training, accident prevention, and other technical matters have been the subject of their inquiries. War and post-war activities of American military construction and engineer units have been responsible for much of the recent interest Europeans have shown.

The large re-building and expansion programs of ravaged foreign nations have created a need for American technical assistance. Speed and economy for which contractors of this country are pridefully famous, is a prime requisite in these programs. Upon request, the A.G.C. and its affiliates have arranged tours for foreign visitors who seek to observe projects of all types under construction in the United States.

Foremost of such tours were those organized for Holland and Great Britain. These two countries, through the Economic Cooperation Administration and the A.G.C. as well as other private organizations, made thorough, and, they report, most rewarding surveys of American construction methods in action.

Follow A.G.C. Pattern

Reports of the British productivity team have since been given much publicity in the British Isles and in the Union of South Africa. Observers were particularly impressed with the part played by the general contractor, and they advanced the idea that the British construction industry could gain more efficiency if the single con-

America Has Become Mecca of Construction Techniques

- Many Foreign Visitors Seek A.G.C. Assistance
- Association's Structure, Ideas Copied Abroad

tract method of construction were studied and applied.

The Associated General Contractors of Japan and the Philippine Contractors Association have been created since the war. Both have patterned their structures after the A.G.C. at the suggestion of American military engineers working in those areas.

Facts about the Philippine organization were brought to light when Juan J. Carlos, its president, visited the national staff offices in December. Import regulations and "dollar" difficulties led Philippine general contractors to form a body which would inform the government of their problems and needs. Mr. Carlos stated that the association has been very effective since its start in 1946.

Managing director H. E. Foreman was visited recently by Yoshiro Obayashi, president of one of the largest general contracting firms in Japan, and two other Japanese contractors who had come to America to study construction operations and adminis-

trative procedures. As well as coming to the national headquarters, they visited A.G.C. chapters in Detroit, Chicago, San Francisco and Los Angeles.

The A.G.C. national staff has corresponded with almost every country in the world and in the last year or so has received more than 30 visitors from 17 countries. Very often they seek a responsible contractor to do construction work abroad. Staff officials do not recommend any particular contractor but they do offer a list of those members who have expressed an interest in doing foreign work.

Contract Method Lauded

Advocation of the contract method as the most economical means for constructing public works as well as any other type project is forcefully made by foreign contractor groups.

L. G. Smith, director of the South African Federation of Civil Engineering Contractors, in an address to the Annual Congress of the Divisional (Continued on page 152)



CERTIFICATE OF COOPERATION

awarded to

Assoc. Gen'l Contr. of America

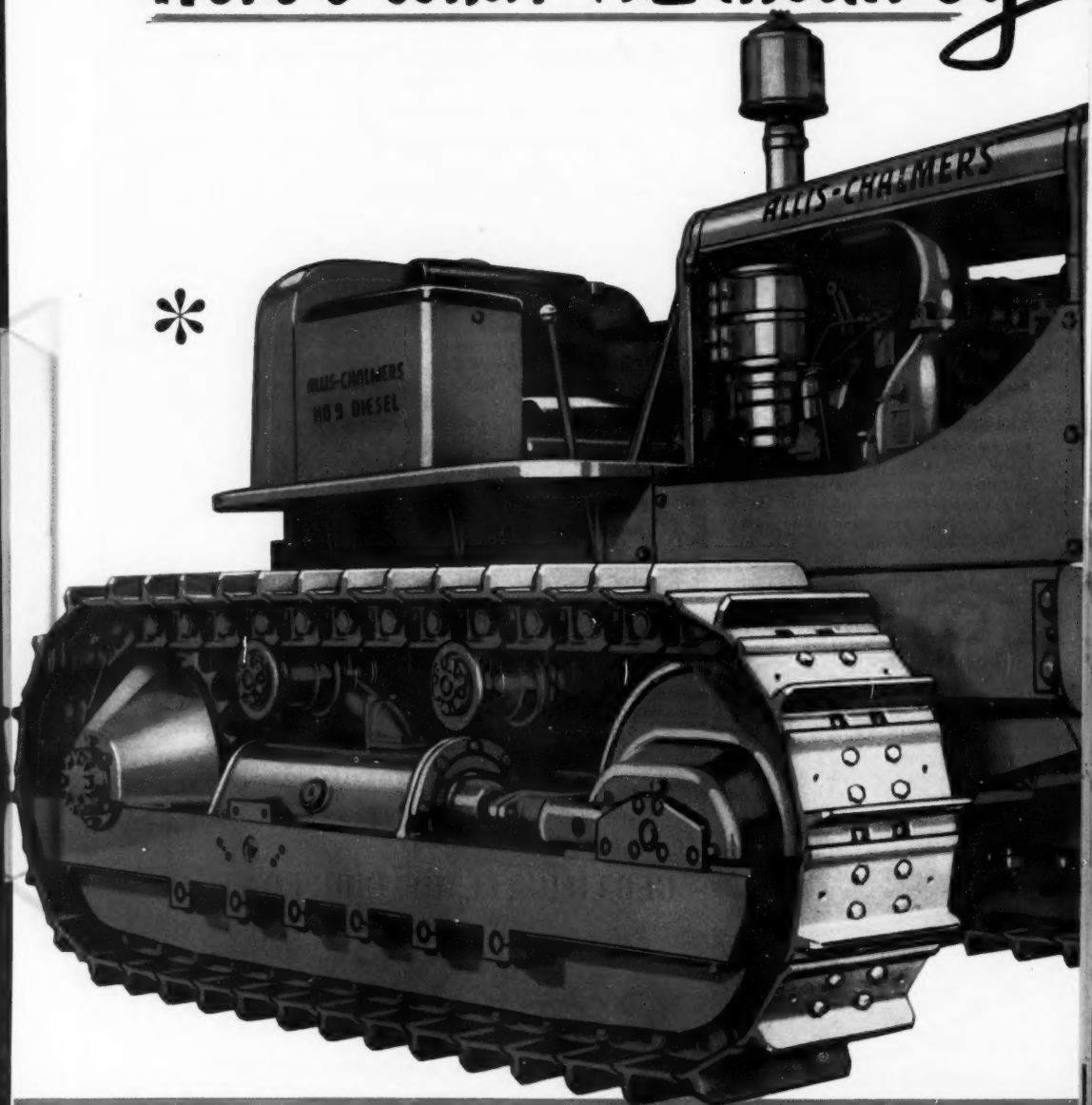
*for furnishing technical assistance to the
Peoples of the Marshall Plan Countries
to aid them in maintaining individual
liberty, free institutions and peace.*

April 3, 1951

Walter C. Foster
ADMINISTRATOR

The Economic Cooperation Administration officially acknowledged A.G.C. assistance to foreign construction teams in conducting tours of construction projects underway in the United States with the above certificate.

Here's what WE mean by



40.26 drawbar hp.
11,250 lb.



70 drawbar hp.
18,800 lb.



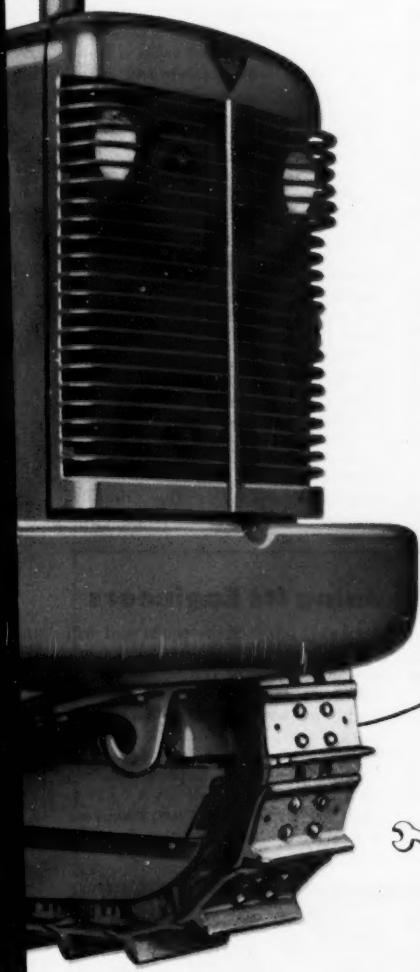
102 drawbar hp.
27,850 lb.



Hydraulic Torque Converter Drive
175 net engine hp.
41,000 lb.

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EASY TO SERVICE

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- ▶ Allis-Chalmers' new tractor line is blazing the way to simpler servicing with time and money savings never before possible.
 - ▶ Adjustments are easier . . . lubrication simplified and lube periods greatly extended. Mechanics say these are the easiest tractors they have ever worked on!
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 - ▶ Below are just a few reasons why this **NEWEST, FINEST TRACTOR LINE ON EARTH** is *Easy To Service* . . . besides being built to "take it," easy to operate and entirely new in performance. Get the full story from your Allis-Chalmers dealer.



TIME-**SAVING** LUBRICATION DESIGN—

Only a few lube points, easy to get at — **NONE UNDER TRACTORS**. You operate **75 HOURS** without any greasing — then only one fitting to hit and an oil change to make. (Only exception, torque converter bearings on HD-20). You lubricate the Positive-Seal truck wheels, support rollers and idlers only once every **1,000 HOURS**!



ACCESSIBLE ADJUSTMENTS—**QUICKLY MADE**—

brakes, master clutch, steering clutches. No floor plates to remove for any adjustments. Tracks easier to adjust — simple screw adjustment with automatic lock.



EASY TO REPAIR—

Engine, master clutch, transmission, steering clutches and final drives can be easily removed and repaired or replaced, without disturbing adjacent assemblies.

The Newest, Finest Tractor Line on Earth!

ALLIS-CHALMERS
TRACTOR DIVISION • MILWAUKEE 1, U. S. A.

Council of the Cape, described the advantages of the contract system over government managed public works construction.

Competitive bidding, or tendering, as he called it, demands detailed preparations of plans and specifications thus providing government authorities the opportunity to compare relative costs before the project is begun, he stated, and also makes available for the work the experience of contractors who have specialized in related types of construction.

Speed and Efficiency

The contract sets a date for completing the project and usually imposes a penalty for the contractor's failure to finish on time. The contract also provides that the work must be to the satisfaction of the government authorities, he continued, thus assuring speed and efficiency. "Overheads are such that the contractor has a further strong incentive to complete the project as soon as possible. Where the departmental system is employed, none of these conditions apply. The question of payment is merely an inter-

departmental matter while it is obviously impossible for an employing authority to inflict monetary penalties upon its own works department."

Mr. Smith pointed out that "the contractor provides centralized responsibility for the completion of the project at the agreed price, with specified quality, and upon schedule."

This address, reprinted in the October *South African Engineer* under the heading of "The Contract System Protects Public Money," restates and at many points echoes the A.G.C. booklet, *The Contract Method of Construction Safeguards Public Funds*, first printed in 1948.

Foreign Joint Venture

Morrison-Knudsen Company, Inc., A.G.C., has joined with the Societe des Batignolles, a French construction firm, to carry on construction activities in France, French overseas territories and other Marshall Plan countries in Europe.

The Boise, Idaho, firm for some time has been carrying on world-wide op-

erations in the building of industrial, railroad, irrigation, highway, bridge, harbor and hydroelectric projects.

Under a Marshall Plan convertibility guaranty of \$252,000, Batignolles-Morrison-Knudsen will concentrate its efforts in less developed areas of India, the Middle East regions and Africa for which the new firm is presently negotiating for the construction of irrigation and hydroelectric installations.

Morrison-Knudsen's initial capital investment of 144,000 dollars will be matched with equivalent francs by the French firm. Each will provide top executives to assist in the general management of the subsidiary company, and each will provide technical personnel for individual construction projects.

The Economic Cooperation Administration points out that the convertibility guarantee arranged through the Export-Import Bank of Washington, makes possible new construction in soft-currency areas where investment risks are great, and also brings to underdeveloped areas the fruits of American skill and know-how.

U. S. Firm Building Indian Power Plant, Training Its Engineers

» CONSTRUCTION of the first high-pressure steam-generating plant in the Far East begins India's long-range program for industrial improvement.

In preparation for this project, 11 Indian engineers have spent 10 months in the United States studying American construction methods and power operations. Their training was supervised by the Kuljian Corporation, A.G.C., of Philadelphia, to whom the

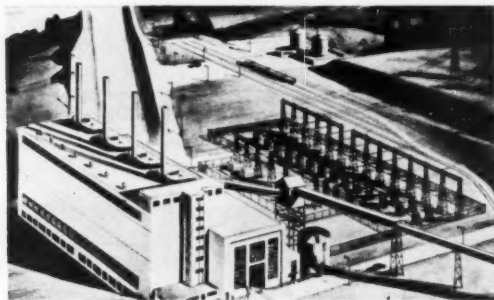
Indian government has awarded the contract for the design, engineering and construction of the Bokaro steam plant.

Cost of the plant is expected to exceed \$35 million. When it is finished, the Kuljian Corporation has agreed to operate the plant for one year before turning it over to Indian engineers.

The plant will be strategically located within three miles of the largest

strip coal mine in the world and will provide power for a very large territory in the heart of India. Among the industries to benefit from the new supply of power is the Tata Iron and Steel Works, largest of its kind in the Orient.

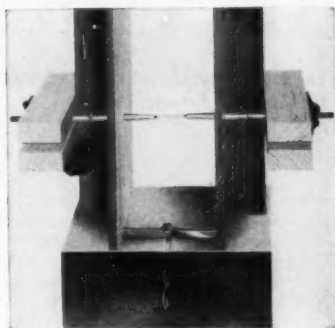
One of the Indian engineers likened the project to a "small TVA." It is hoped to provide irrigation, flood control, and cheap power to an immense area.



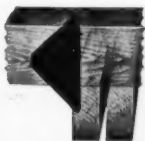
Left: An architect's rendering of the Bokaro Power Station located on the Damodar River in India. The contract for the job was awarded to the Kuljian Corporation, Philadelphia. The power station is only a part of a large program to improve India's industries. Right: Indian engineers receive final instructions from H. H. Levonian, chief engineer, Kuljian Corporation. They have spent 10 months in America studying construction and administration of power projects.

Williams Vibra-Lock Form Clamps . . .

employ the use of Super-Hi Tensile Tie Rods which effect a saving of at least 50% in steel that would normally be required to obtain the same factor of safety. Williams exclusive feature of tying and spacing forms externally (nail-in-stud) eliminates any internal washers or spacers and results in a better finish for architectural concrete and a positive disconnection of $1\frac{1}{2}$ " or more back from the surface. Both sides of the form may be erected and the clamps installed later, eliminating interference with the carpenter by clamp crews.



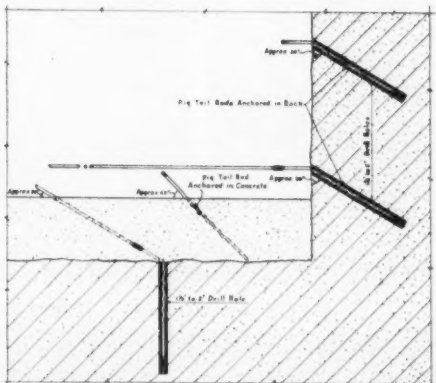
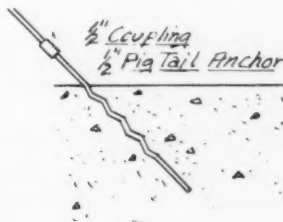
Williams Clamps showing nail in stud spacing—waler support—and form aligner.



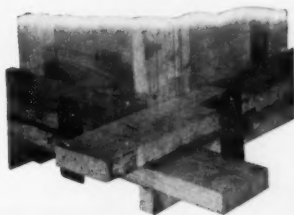
Waler supports.



High Tensile Tie-Rod Couplings.



Pigtail Anchors in drilled holes in Rock or Shale.



WILLIAMS OUTSIDE CORNER CLAMP
Used on any 4" or 6" Double Waler.

For complete information write for our catalogue "Form Engineering #1950"

WILLIAMS FORM ENGINEERING CORP.

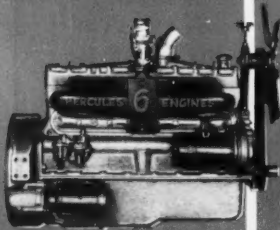
BOX 925 MADISON SQUARE STATION — GRAND RAPIDS, MICHIGAN

HERCULES ENGINES

provide dependable power for the . . .



Engine
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Gas — Gasoline — Diesel
Butane — Propane
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construction industry

As illustrated in the above scene, contractors depend on Hercules engines to power all types of construction equipment. Compressors, Centrifugal Pumps, Shovels, Generator Sets, Trucks, Cement Machines, Bulldozers, and many other types of machinery are Hercules powered.

For power "made-to-measure"—specify Hercules Engines—a complete line of 64 models from 3 to 500 H. P.—manufactured by engine building specialists.

HERCULES MOTORS CORPORATION - Canton, Ohio, U.S.A.

» THE Producers' Council and The Associated General Contractors of America early this month announced the establishment of a national joint cooperative committee for the study of problems of mutual interest.

The announcement was made jointly by A. Naughton Lane, of the Monarch Metal Weatherstrip Corp., St. Louis, who is president of The Producers' Council, and by Glen W. Maxon, of the Maxon Construction Co., Dayton, Ohio, who is president of the A.G.C.

The Producers' Council is the national organization representing the principal manufacturers of building materials. It has 92 company members and 24 other associations of materials producers affiliated with it.

To Consider Common Problems

The purpose of the committee is to provide a medium through which producers of building materials and general contractors can cooperate to increase the efficiency of the industry. It will consider projects suggested by members of the committee, by members or chapters of either organiza-

Producers, A.G.C. Form Joint Committee

• Building Materials Group, Contractors to Tackle Problems

tion, by other groups in the construction industry, or by the public.

Discussion Subjects Proposed

Possible subjects for discussion include materials requirements for the defense program, standard forms of manufacturers' quotations, general terms of settlement with subcontractors, escalator clauses, product exhibits and local cooperation.

Both associations maintain cooperative committees with other associations or professional societies in the industry for the purpose of improving relationships in the industry and the efficiency of industry operations.

The Producers' Council-A.G.C. committee is expected to hold two meetings a year. The first has been scheduled tentatively for September 25, 1951 in Washington, prior to The Producers' Council annual meeting.

Members of the committee are: Producers' Council: David S. Miller,

Kawneer Co., Niles, Michigan, co-chairman; F. M. Hauserman, E. F. Hauserman Co., Cleveland; Arthur Hedgren, H. H. Robertson Co., Pittsburgh; Edward P. Lockart, American Structural Products Co., Toledo; Alex. Marks, Otis Elevator Co., New York; Ludolph S. Meyer, Hydraulic-Press Brick Co., St. Louis; and Charles M. Mortensen, Executive Secretary, The Producers' Council, Washington, co-secretary.

A.G.C.: W. Murray Werner, The Werner Co., Shreveport, Louisiana, co-chairman; J. W. Cawdrey, Cawdrey & Vemo, Seattle; F. L. Shackelford, Potter & Shackelford Construction Co., Greenville, South Carolina; R. A. Smith, P. J. Walker Co., Los Angeles; J. R. Sweitzer, J. S. Sweitzer & Son, Inc., St. Paul; John A. Volpe, Volpe Construction Co., Malden, Massachusetts; and Welton A. Snow, Manager, Building Contractors' Division, A.G.C., co-secretary.

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1 MASTER SCREED
Strikes-off and Compacts
6,000 sq. feet per hour.

2 MASTER TURN-A-TROWEL
Finishes 800 sq. feet
per hour.

FOR FASTER STRIKE-OFF & VIBRATION

1 ... the MASTER SCREED has no equal. No additional vibration required. All sizes adjustable. A quality product that saves labor, saves finishing, saves cement. Write for MASTER SCREED Catalog No. 492.



FOR SMOOTHER, EASIER FINISH

2 ... the MASTER TURN-A-TROWEL provides quick changing from wide compacting trowel to trowel finishing. Covers more area with more paste brought to surface for faster final finish. Write for MASTER TURN-A-TROWEL Catalog No. 939.



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BETTER PRODUCTS FOR BIGGER PROFITS

MASTER VIBRATOR COMPANY
105 Davis Avenue, Dayton 1, Ohio

A.S.C.E.-A.G.C. Group Meets in Washington

• Controls, Engineer Registration, Personnel Shortage Discussed

» CONTROLS being placed over the construction industry by the National Production Authority, Office of Price Stabilization and others were discussed by the joint cooperative committee of the American Society of Civil Engineers and The Associated General

Contractors of America at a meeting in Washington June 4.

Means were discussed of how both organizations could continue to work with governmental agencies to clarify existing uncertainties of the various controls.

The committee reaffirmed a recommendation made at its meeting in Boston last February that awarding agencies include termination clauses in their contracts. Reports were made of the states which have adopted termination clauses for highway contracts, and of the cities which have adopted them for municipal construction.

To Study Registration Criteria

Good progress was reported in revising the standard contract form for engineering construction by task committees of the two organizations. Progress was also reported by the A.G.C. group in reviewing the standard questionnaire and financial statement by bidders for engineering construction.

A.S.C.E. representatives recommended that their Committee on Registration of Engineers and the Executive Committee of the Construction Division study the matter of the weight which is given by state registration boards to construction experience in registering engineers. Attention was given to the practice in California where little value is given to practical experience of working on construction projects.

Urge Education Stimulant

A severe shortage of civil engineers for construction was predicted by the committee, which recommended that A.S.C.E. and A.G.C. groups stimulate the enrollment of students in engineering courses. It also recommended a review of the pay for professional engineers in public and private practice and such increases as are necessary to make salaries commensurate with responsibilities.

Admiral Kirby Smith, Raymond Concrete Pile Co., New York, co-chairman of the joint committee, presided. Other A.S.C.E. representatives were President Gail A. Hathaway, special assistant to the Chief of Engineers, U. S. Army; Eugene L. Macdonald, of Parsons, Brinckerhoff, Hall and Macdonald, New York; Joseph H. Ehlers, A.S.C.E. Washington representative; and Carl E. Beam, New York, co-secretary.

A.G.C. was represented by L. C. Rogers, Bates and Rogers Construction Corp., Chicago; Richard Hopkins, Richard Hopkins Co., Albany, New York; S. L. Fuller, John F. Casey Co., Pittsburgh; Managing Director H. E. Foreman; and A. N. Carter, Manager, Highway Contractors' Division, co-secretary.

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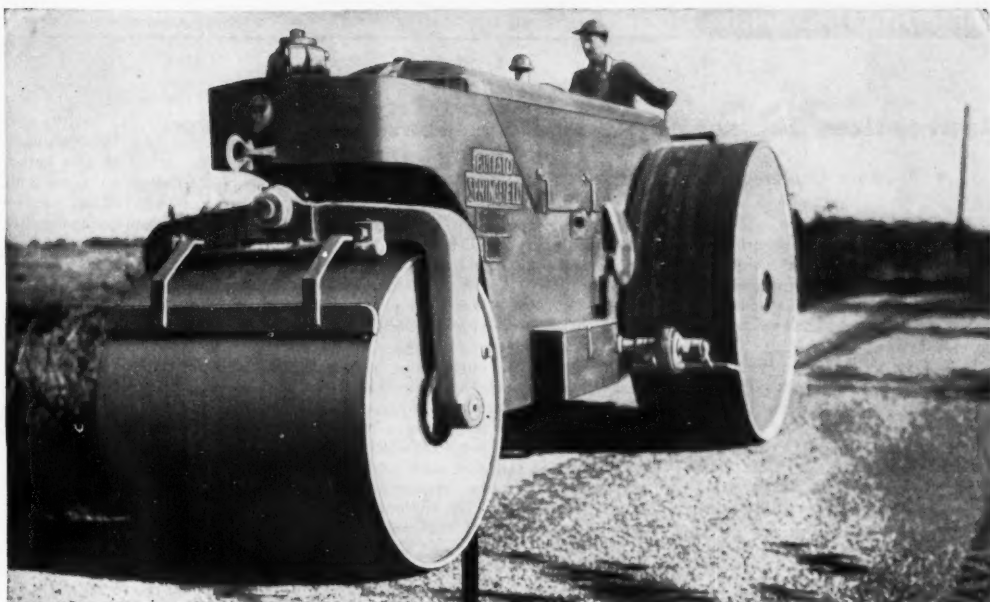
Fire



CENTRAL SURETY AND INSURANCE CORPORATION
B. E. MCGINNIS, President
HOME OFFICE KANSAS CITY, MISSOURI

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WORKHORSE 3-Wheel Roller Style

Buffalo-Springfield variable weight 3-wheel rollers are work-horses by any definition. No longer single-purpose machines, these new units far outstrip "old Dobbin" in ability to perform many different jobs with efficiency and economy.

For example, the Buffalo-Springfield model VM-18 is basically a 5-ton machine—but that's not all. It can perform work calling for a 6-ton or even a 7-ton machine. The VM-18's wide job versatility is made possible by ballast type rolls. Heavy steel head plates, welded to the roll tires and hubs, form water-tight compartments. Filling and drain plugs in the outer heads permit filling the rolls with water

to increase the roller weight. If even higher compressions are desired, shovel openings with bolted water-tight covers are provided so a mixture of water and sand can be used as the ballasting material. Thus—the VM-18 can be adapted to meet compression requirements that would normally call for three fixed capacity models.

Equally important, the roll surfaces are machine-finished for uniform smoothness and curvature, which means the VM-18 can also be used for finishing work. Thus, one variable weight 3-wheel roller is used for many applications and reduces the equipment requirements on any road building job.

There are seven Buffalo-Springfield variable weight models covering a range from 5 to 17 tons. Your nearest distributor can give you complete details on the model best suited to your needs. See him today.



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THE BUFFALO-SPRINGFIELD ROLLER CO.

Dept. F-7, Springfield, Ohio

☐ Please send me Catalogue S-60-50 describing the right model for my requirements. ☐ Notify Distributor to call.

NAME

ADDRESS

CITY

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Apprentices Subject of Three-Day Meeting

• Southern Conference Discusses Skilled Labor Shortage

» MAINTAINING an adequate supply of well-trained apprentices for American industry was the theme of the Third Annual Southern States Apprenticeship Conference attended by labor, management and government representatives.

Among the 14 crafts represented at the June 14-16 Memphis meeting were construction and building trades, metal trades, machine tools and parts trades, and mechanics.

General chairman for the 10-state conference was W. W. MacLaughlin, Jr., secretary-manager of the Memphis Chapter, A.G.C.

G. W. Maxon, A.G.C. national president, warned that apprentice training programs must not be allowed to lag for the lack of young men during the national emergency. "As this present war emergency continues, it is going to be increasingly difficult, in some areas at least, to obtain new

apprentices and to keep all of those who may already be in training," the Dayton contractor said. As a temporary alternative to a shortage of young apprentices, Mr. Maxon suggested that older eligible men be trained with refresher courses.

Pointing up the outstanding controversy between labor representatives, who do not want an oversupply of skilled men, and management representatives, who do not want a shortage, Mr. Maxon said that each locality must settle its own requirements through bargaining. He advised his listeners, however, that the construction industry, responsible for the physical expansion of every community, must have an adequate number of trained men to fill the nation's construction need.

In conclusion, Mr. Maxon made these four points: "(1) Construction is essential to American progress and

the nation's security, its health, welfare and safety. (2) To accomplish the construction needs of this nation we must have an adequate number of properly trained and skilled craftsmen. (3) The system of apprentice training is the one system that, if properly planned, developed, and put into action, will give maximum assurance of providing these skilled craftsmen. (4) Apprenticeship is extremely important and vital to the construction industry for without it we would be extremely hard-pressed in carrying out our obligation to the public, namely, to build the facilities of this nation when, where and how wanted."

Other opening session speakers were Secretary of Labor Tobin, and W. F. Patterson, Director, Bureau of Apprenticeship, Washington.

Mr. Tobin commented that for every eight workers on the job in apprenticeship trades there ought to be one worker in training. This would mean increasing the present 250,000 active apprentices to about a million.

The supply of skilled workers is a

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TYSCRU IS A NAME THAT'S REGISTERED FOR YOUR PROTECTION

In 1911, Richmond began producing special tying and anchoring devices for concrete construction. To identify these ingenious, soundly-engineered products, Mr. Richmond proudly coined a whole family of related names—TY-SCRU, TY-CONE, TY-LAG, TY-HANGER, TY-FRAMES, SNAP-TY, PANEL-TY and others.

The widespread acceptance of these

devices induced others to try to emulate Richmond, with similar products.

But when you want the original, genuine Richmond products NOTE THE DIFFERENCE IN SPELLING OF PRODUCT NAMES—for Richmond, and only Richmond offers you form-tying devices and services tested and proven 100% DEPENDABLE by over a third of a century of use.

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- TY-CONE
- TY-HANGER
- TY-FRAME
- SNAP-TY
- PANEL-TY

WELL, PAL, AIN'T THAT A SHAME! DID YOU HOIT YOUR BLANKETY BLANK FINGER?

NAW—THIS IS JUST SO I WON'T FORGET TO TELL THE BOSS TO QUIT BUYING STUFF BY EAR.

Get your "SCREWY" or "TY" button—write to John Cushing at Richmond, 816 Liberty Ave., Brooklyn 8, N. Y.



RICHMOND KNOW-HOW—DEPENDABILITY—SERVICE—ESTIMATES & JOB PLANNING

APPRENTICE TRAINING

prime factor in America's industrial strength, he said, and every effort must be made to increase this supply in the long run. For the present, greater goals cannot be reached because of the demand for military manpower, but, he added, the one million goal can be planned for.

Because many draft boards are deferring apprentices with a year's training in critical skills, Mr. Tobin

advised that employers hire young men.

In conclusion, he said, "I'd like to pay tribute again to this apprenticeship program and the men who are behind it. I think the whole defense effort has something to learn from your program, . . . for it is living testimony to the value of cooperation among labor, management and government."

Praising the apprenticeship program of the South, Mr. Patterson said that there were over 22,217 apprentices registered in the 10 states participating in the conference, and that 3,682 apprentices had become certified in that area in the last year.

Other A.G.C. representatives who attended the conference are: Welton A. Snow, manager, Building Division, Washington; Frank J. Rooney, Frank J. Rooney, Inc., Miami, president of the South Florida Chapter; W. Murray Werner, The Werner Company, Shreveport; and A. N. Goldberg, Goldberg Construction Company, New Orleans.

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Hoe keeps costs low . . . helps profits grow!



Simple, rugged construction—easy maneuverability—fast digging cycle—and low operating cost make OSGOOD Hoe Model 200 a big favorite for excavating basements, trenches, and performing innumerable other digging jobs.

Boom is goosenecked for best digging angle and greater depth (16' 10"). Sixteen-foot boom length and 7-foot arm length provide long reach, permit dumping far out. New 11-foot crawler with 22-inch treads give extremely low ground bearing pressure of only 6.55 psi. Special boom and gantry are easily removed in switching Model 200 to service as a shovel, clamshell, crane, dragline, skimmer, or piledriver. Write today.



EQUIPMENT DESIGNED WITH YOUR PROFIT IN MIND

The OSGOOD COMPANY

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This photo shows better than words how this tough little giant gets right down to business—digs deep, digs clean, digs fast. Dippers of various widths are available.

POWER SHOVELS, CRANES
DRAGLINES, CLAMSHELLS
PILE DRIVERS & BACK HOES
CRAWLERS & MOBILCRANES
DIESEL, GASOLINE OR
ELECTRIC POWERED
CAPACITIES 1/4 TO 2 1/2 CU. YD.

Skilled Workers Increase


"For the first time in the history of the United States, a major segment of industry, the construction trades, has turned out new journeymen through apprenticeship at a rate in excess of normal trade losses," W. F. Patterson, Director of the Department of Labor's Bureau of Apprenticeship, told delegates attending the 10th annual meeting of District 5, National Electrical Contractors' Association.

Mr. Patterson, principal speaker at the April 23 meeting in Phoenix, Arizona, said that over a two-year period from July 1948 to July 1950, statistics showed that apprenticeship programs for the construction industry, supervised by unions and contractors' associations, turned out about 18,000 trained workers, while over the same period, journeymen losses in the construction industry were approximately 12,000.

However, he warned, the large supply of World War II veterans who entered apprentice training programs during this two-year period is about exhausted, and apprentices registered with state and federal agencies are decreasing.

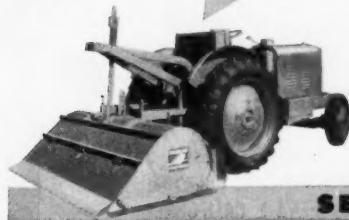
Since the start of the Korean conflict, there has been a loss of 5.1 per cent, he stated, with the national apprentice training program losing about 1,000 men a month to the armed forces. However, he added, there is no apparent decrease in the number of apprentices being indentured.

In conclusion, Mr. Patterson recommended additional programs, better selection and personal counseling of apprentices to cut down the number of drop-outs and a continuation of the interest shown by industry and labor groups—in brief the apprenticeship program is in good condition.



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The new, 1951 edition of "Soil Stabilization Methods" is off the press. Completely revised and enlarged, 100 pages of pictures, diagrams and practical construction information. It's **FREE**. Just ask for Bulletin 25. Write today.



ROAD MIXING with the SEAMAN is the quick, low cost, efficient method. The SEAMAN is engineered and built specifically for that job—just as blades, for example, are built for grading, shoulder work and general maintenance.

The SEAMAN MIXER is designed to mix completely to the bottom of the full selected depth. No unmixed material at the subgrade—and no subgrade material brought up into the mix. Depth control is accurate and positive under all conditions.

And you have complete command of the mix itself at all times. No worries about an unsatisfactory operation even when conditions are adverse, for with the SEAMAN an additional pass to bring the mix up to specification is done quickly and at low cost.

It pays to use the equipment which has been *designed* for its particular job. That's why more and more contractors and highway officials insist that *all* mixing be done with the SEAMAN.

The SEAMAN Self-Propelled (left) is a complete mixing unit which offers full 360 degree operator visibility and accurate control of the mix. It also frees a critical tractor for other work . . .



The SEAMAN TRAV-L-PLANT (right) offers all the advantages of the Self-Propelled unit. It is equipped with tachometer assembly and a volumetric meter is available for the closely controlled application of bitumen. Water also is readily applied.

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Advance Planning Loan Program Is Killed

• Interest-Free Advances Helped Plan \$1 Billion in Public Works

» THE FEDERAL advance planning loan program which has helped many a local government to get its needed public works projects under way has been killed as the result of the body blow dealt this activity by Congress in the 1952 Independent Offices Appropriation Bill. Since the Korean conflict began, it had received little support within the government.

As of June 30 the Community Facilities Service (formerly of the General Services Administration) of the Housing and Home Finance Agency will accept no more applications for interest-free planning funds under the second Advance Planning Program for non-federal public works which has stimulated the planning of nearly a billion dollars of construction in this category during the past two years.

800 Applications Pending

A backlog of more than 800 applications for these loans must be re-

viewed before October 13 when the entire arrangement will be wound up with no agreements executed after that date. These pending applications will be considered, according to HHFA Administrator Raymond M. Foley, "in the light of funds available, the relative urgency of the proposed public works, and their relation to the defense effort or essential community requirements."

Original Plan \$100 Million

The planning program was authorized by Congress in October 1949 for two years, with \$100 million authorized to be appropriated for lending to local and state bodies to get their urgently needed plans and specifications prepared. The borrowers were to get their projects under way within a reasonable time and pay back the loans at that time.

Last September the program was restricted to conform to new criteria

to bring public works construction "within the defense effort or to meet civilian requirements that were clearly essential," and all pending applications were restricted to conform to those conditions.

The attitude of Congress toward the program was expressed in the report of the House Appropriations Committee on the appropriations bill:

"... The committee requested representatives of the agency in charge of this activity to discontinue in large part the making of any further advances of funds for new planning under this program, it being of the opinion that such activities with one or two exceptions, should be deferred until the international situation has improved.

"The act was originally passed to meet local needs under a normal peacetime economy. It was not planned as a defense measure, and there is pending before the Congress legislation to authorize a different type of federal aid in connection with defense public works.

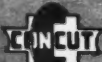
(Continued on page 164)

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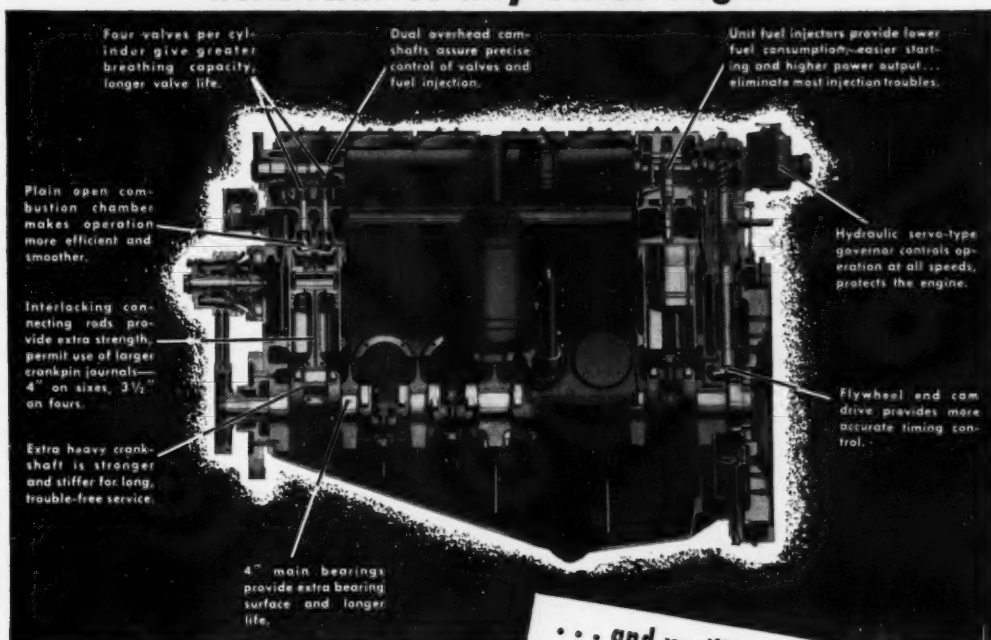
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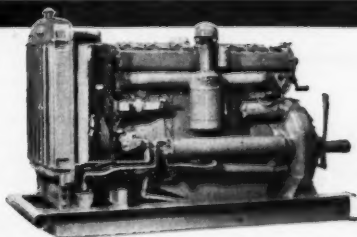


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A more detailed discussion of these features and others is given in the booklet, "10 Questions to Ask a Diesel Engine Salesman." You can get a copy from your Murphy Diesel Dealer or we'll be happy to send you one.

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Sales, parts and service in principal centers

(Continued from page 162)

"... After consultation with agency officials, the committee has permitted the agency to retain limited funds to be used for essential projects in communities having the most urgent needs. In a number of localities serious problems are already resulting from defense activities, such as those surrounding the atomic energy developments

in South Carolina and Kentucky."

The \$550,000 given the agency to clean up the program is \$5,450,000 less than the original request in the President's budget. Since that time the program has been kicked around in Budget Bureau conferences, that agency having recommended a reduction to \$1.1 million.

Since the program's inception in

1949, advances have been approved for planning assistance totaling only \$23,790,180 of the \$100 million authorized. However, these have resulted in the planning of more than 1,200 public works projects—mostly sanitation works and schools—to cost an estimated \$927,727,157.

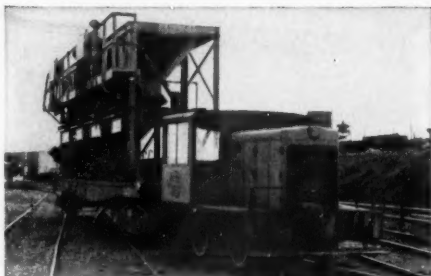
Program Has Been Praised

Trade associations and professional societies of the construction industry, the Chamber of Commerce of the United States, and many other sources have frequently in the past pointed out the benefits and soundness of the advance planning program in aiding communities plan their needed public works.

The program has been administered by Community Facilities Commissioner Pere F. Seward.

Davenports CREATE PROFITS where projects call for RAILS

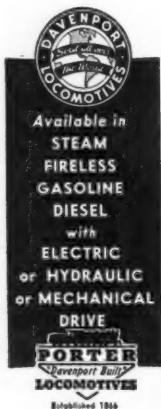
From mix plant to point of pouring, this special car-mounted hopper and discharge structure is hauled by a 12-Ton Davenport 0-4-0 Gasoline Electric Locomotive on the Garrison Dam and Reservoir (Missouri River), Riverdale, N. Dakota.



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Water, Sewer Costs Reported

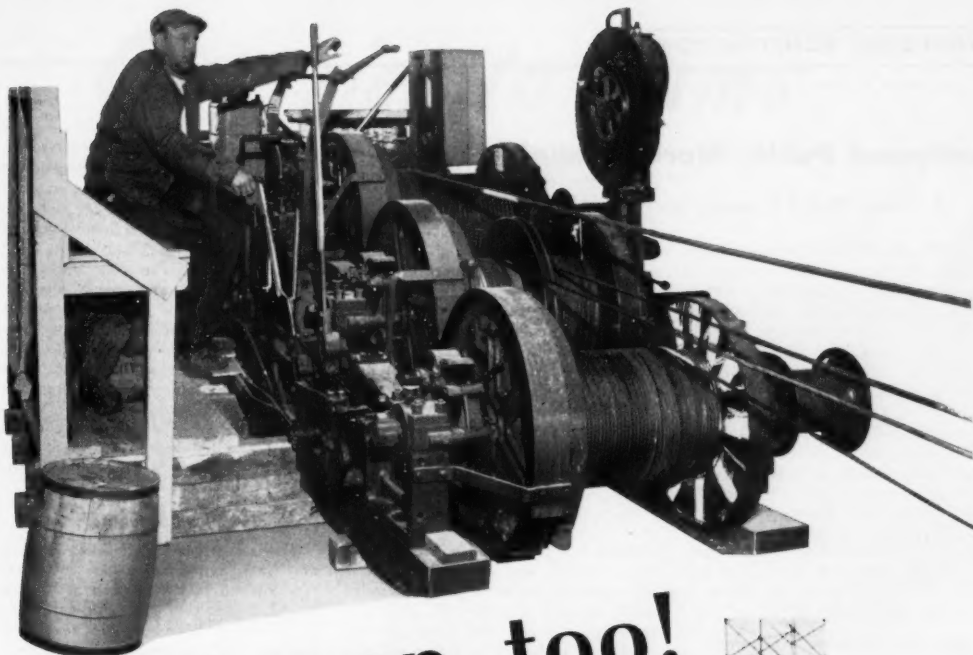
In building water and sewer projects, materials accounted for nearly half the total cost with labor costs running about 30 per cent, according to a joint survey conducted by the Labor Department's Bureau of Labor Statistics and the Federal Security Agency's Public Health Service, covering the period 1948-1950.

Half the expenditure for new water works, treatment plants and distribution lines was for material compared to 40 per cent for material costs in building new sewer projects.

Labor costs for all types of water and sewer works were about 30 per cent of total costs.

One-fifth of all outlays for water treatment plants was spent for key metal products (chiefly pipe, fittings, and reinforcing steel), fifteen per cent was for metal-using machinery and equipment, and 10 per cent for pre-mixed concrete. A third of the cost to build distribution lines was for metal products, and 10 per cent for cement asbestos pipe, and other stone, clay, and glass products.

A plan to convert another of Philadelphia's older sections located near the center of the city into a desirable residential neighborhood with improved and less congested housing, an additional 15 acres of open play space, and more convenient shopping centers was proposed last month by the Philadelphia City Planning Commission. The mixed residential-commercial-industrial area will cost an estimated \$8.1 million to redevelop.



Hoist men, too!

THOMAS HOIST COMPANY now offers a safe method of hoisting men on tall building construction jobs.

By combining an automatic safety brake on the cage and an electric controlled speed limiting device on the hoist, Thomas Hoist Company man-hoisting equipment has been approved and used by many contractors on tall buildings in and around Chicago.

The usual setup has been a double well tubular steel tower with a man-hoisting cage in one well and concrete apparatus in the other well. After the concrete work has been done, a platform can be put on the bail in the second well to provide a material cage. Usually a Chicago Boom is also used.

The Thomas Band Friction hoists furnished have been either 50HP electric, 100HP electric or 60HP gas, or 100HP gas, three drum hoists.

The speed limiting safety device is connected to one drum. This drum also has a divider so that two cables can be attached to the man-hoisting cage, thus providing an added safety feature.

The man-hoisting cage can also be furnished in a single well tower together with a double drum hoist.



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Continued Public Works Planning Urged

• State Official Proposes Speed-up of Needed Projects

» THE ADOPTION of both short- and long-range planning programs to run concurrently during the uncertain defense period ahead was advocated recently by I. Alvin Pasarew, director of the Maryland State Planning Commission, at a recent conference of planning agencies.

The Maryland official told members of the Association of State Planning and Development Agencies that a short-run program to complete construction on urgent and non-postponable projects is in order.

While advising a speed-up of construction of essential jobs previously planned, he counseled that plans for the future must consider the demands of the defense mobilization.

Short-Run Policies Suggested

The acceptance of policies such as these would be wise for the next year or two, he said, although their appli-

cation will be qualified by availability of labor and materials and present federal restrictions on construction:

- (1) Complete the construction of all non-postponable urgent projects which can be finished during the next two years, those subject to construction restrictions of M-4.
- (2) Develop high standards of maintenance for all publicly-owned utilities, buildings and roads.
- (3) Urge government officials at all levels to modernize all mechanical tools and replace worn equipment.
- (4) Continue to reserve sites for public works projects which have been planned but postponed, such as highways, schools and hospitals. Where short postponement is likely, detailed plans can also be prepared.
- (5) Alert agencies of state and local governments to the federal grant-in-aid and loan programs for interstate roads, urban transportation, housing, sanitation, schools, water supplies and river

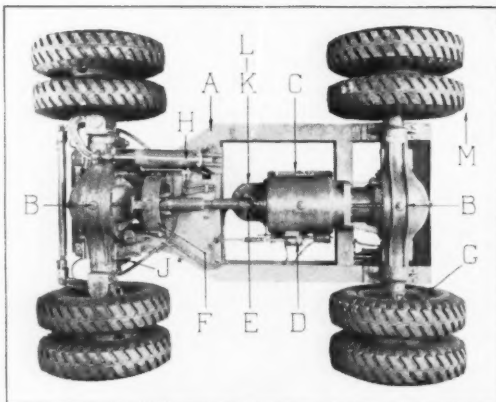
and harbor improvements. (6) Advocate that the federal government provide community facilities to meet the needs resulting from the creation of new military establishments and defense industries, "but insist that planning agencies be given a voice in the planning of such community expansions." If the local governments are to be able later to salvage these wartime developments and integrate them into the communities, Pasarew declared, they must have a hand in planning their installation. (7) Maintain tax rates at high levels, both as a counter-inflationary measure and as a method of building reserves for future public works.

Keep Building Schedule Flexible

Feeling that "semi-mobilization may be a permanent necessity," Pasarew warned that a number of factors would necessitate the long-run program being flexible. He predicted that under the controlled economy rental housing would increase, but home building decline, that private commercial building will "barely hold its

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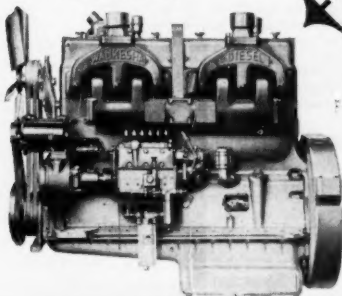


Quarries to Dams



P&H Model 955A Shovel in quarry of Massachusetts Broken Stone Co., Weston, Mass., has a 6-WAKD WAUKESHA DIESEL as does the P&H 995A Crane pouring cement on Mansfield Hollow Dam, Willimantic, Conn. D.V. Friene & Co., New Haven, own the crane.

WAUKESHA Super-Duty DIESEL
Model 6-WAKD — six cylinders,
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the Waukesha 6-WAKD Diesel is standard equipment on their P & H Model 955A 2 1/2 to 3 cubic yard shovels, draglines, and cranes that are so versatile on such a variety of construction jobs. Pictures show two of them at work.

Like all Waukesha Diesels, this Super-Duty Six has many exclusive design features. Most outstanding is the patented spherical combustion chamber. That's the *why* of Waukesha Diesels' unusual performance—the lively, responsive acceleration, smooth, shock-free operation, clean and complete combustion with high fuel economy and low maintenance. Get Bulletin 1415.

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July 1951

MUNICIPAL CONSTRUCTION

present level," that public construction can be expected to rise, that industrial and utility construction will soar, but that materials and labor for new construction will be uncertain and there would be an increasing shortage of technical personnel to government agencies.

However, in spite of these problems, the state planner declared, certain needs will continue or even be accentuated—automotive traffic will increase to the detriment of the roads, demand for public health and welfare institutions will continue, schools will still be overcrowded, and sanitary installations, urban roads and off-street parking facilities of local communities will yet be inadequate.

Planning Must Be Businesslike

The Maryland official stipulated that the mobilization period must not inhibit long-range planning. He told the delegates that state and local governments ought to establish central planning agencies with over-all policies and objectives. These could be translated into specific projects, classifiable as urgent, desirable or deferrable. In any circumstance—prosperity, partial mobilization or total war—advance planning should continue as a government activity. It ought to be a process, he declared, of applying to government "the same broad and foresighted thinking which has resulted in efficiency and progress in private business."

Pollution Control Essential

Industry's need of greater supplies of water to meet defense production schedules changes the emphasis of the water pollution control program from the general needs of the nation to the specific needs of critical defense areas, according to Carl E. Schwob, Chief of the Division of Water Pollution Control of the Public Health Service.

Because of this need for more usable water, Harvey Howe, head of the Water Resources Division of the National Production Authority, claimant for the pollution program, has stated that materials for the construction of sewage treatment plants and drainage facilities will receive top priority.

However, allocations will not begin before the fourth quarter, and the program, though essential, might be cut back in favor of other high priority projects, he said.

THE CONSTRUCTOR, JULY 1951

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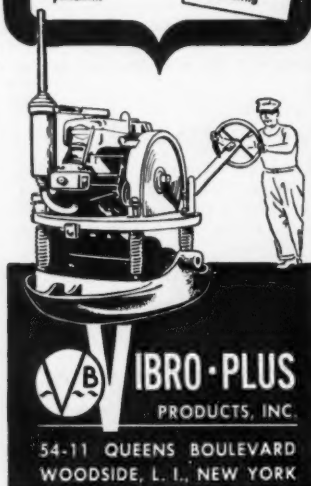
Useful where larger equipment can't go—on open areas, too, it convincingly outperforms other equipment—achieving up to 97.2% of absolute compaction in only 2 passes, compared to 94.2% in 8 passes with a 25-ton rubber-tired roller; 95.4% in 6 passes with an ordinary 12-ton roller; 96.2% in 4 passes with a 7-ton vibratory roller.

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Driven by a 10 H. P. diesel engine, the MRJ-6 is recommended for compacting roads, railway embankments, backfills earth dams, airfields, soil under floors and foundations, etc.

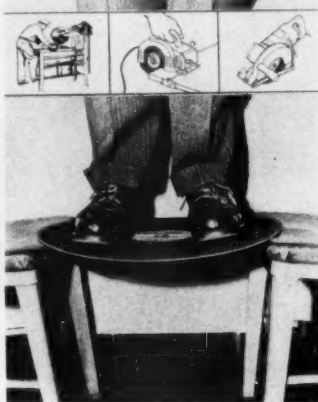
One man can "walk" this Vibro-Plus Compactor or it can be towed by tractor. The 45" x 45-5/16" base is steered by turning the steering wheel. Rubber-tired wheels attach easily for transportation.

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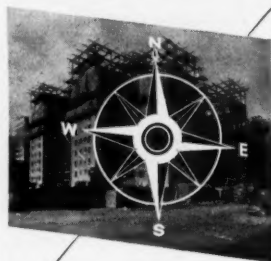
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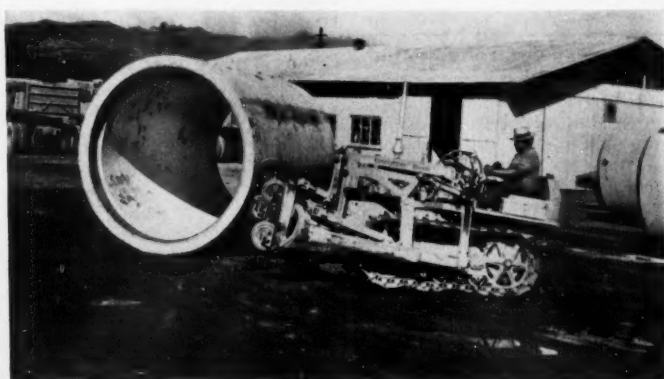
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tough blade. It is designed for softer materials such as limestone, sandstone, light aggregate concrete products, etc.

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The Hawaiian Dredging Co., Honolulu, equipped its Caterpillar D2 tractor with a special device for pushing 21-ton concrete pipe sections. The arrangement consists of hard rubber rollers applied to a bulldozer blade. At the present time the firm is working on the San Island sewer outfall. The tractor with the roller device is used to push the heavy concrete pipe sections to the wharf where they are loaded aboard a small barge to be towed out to the dredging site.

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Self-Propelled Curb
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Lay 5 to 10 lineal feet a minute . . . 600 feet an hour — in any specified curb shape. These unexcelled Dotmar Curb and Gutter performance figures are actually boosting production 5 times over hand methods. And this is only part of the Dotmar Paver's cost reducing capacity. Face forms and division plates are eliminated . . . faster troweling with little or no touch-up is possible . . . as few as three men can do the complete job. Simple extensions for paving sidewalk up to 60" wide. Use it too, for dividing curb and road widening. Write today for Dotmar Paver Bulletin No. 50.

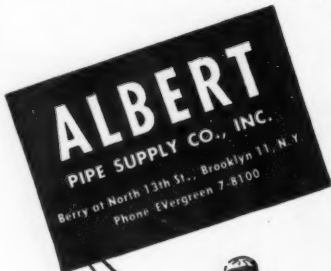
Dotmar INDUSTRIES Inc.

515 Hanselman Bldg.

Kalamazoo, Mich.

SAVINGS FLOW FROM *SPEED-LAY* PIPE SYSTEM

EVERYTHING for a COMPLETE PORTABLE PIPE SYSTEM



**DELIVERED
READY FOR INSTALLATION**

**FACTORY PACKAGED
PIPE — COUPLINGS
FITTINGS — VALVES
ACCESSORIES**

**LIGHTWEIGHT, SAVES LABOR
FAST, SIMPLE**

Immediate Installation
by one unskilled man. 2 1/2 to 12 1/2 o.d. black or galvanized. Larger sizes can be furnished. Ready to lay—without delay.

SEND COUPON NOW!

ALBERT PIPE SUPPLY CO., INC.
Berry & N. 13th St., Brooklyn 11, N. Y.

Please send free booklet describing your Speed-Lay Pipe System and services:

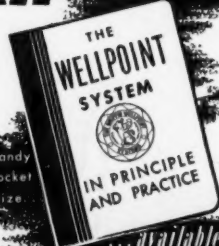
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CITY..... STATE.....

NEW EQUIPMENT • MATERIALS

Belt Conveyor—Fairfield Engineering Co., Marion, Ohio. Model 638 power-moved troughed belt conveyor for heavy-duty material handling has new simplified drive and controls, improved maneuverability of individual wheel steering, hydraulically operated boom hoist and self-equalizing castors.

Gasoline Hammers—Barco Manufacturing Co., 1801 W. Winnemac Ave., Chicago 40. Improved models of portable gasoline hammers feature new ignition, greater portability, increased operating convenience. Compact ignition coil-vibrator-condenser assembly is located in right hammer handle and weighs only few ounces. Vibrator is continuous vibrating type, not dependent on time point contact. Coil, vibrator and condenser are of sealed-type construction. Ignition switch is new toggle type, also located in handle. Recommended electric source is standard 6-volt wet cell automotive type battery, though 6-volt

FREE HANDBOOK



...available to
Contractors, Engineers

Here is the first comprehensive practical handbook on WELLPOINTS! This is the information contractors and engineers have been seeking for years. Not a catalog—not an advertising piece—but a valuable authoritative work written by engineers experienced in dewatering WET EXCAVATIONS.

Tells you: • HOW A WELLPOINT SYSTEM FUNCTIONS • HOW TO PLAN A WELLPOINT LAYOUT • HOW TO INSTALL YOUR WELLPOINT SYSTEM • HOW TO OPERATE IT EFFICIENTLY.

GRIFFIN WELLPOINT CORP.
881 East 141st St. New York 54, N. Y.

Please send me, without obligation, my copy of THE WELLPOINT SYSTEM.

Name.....
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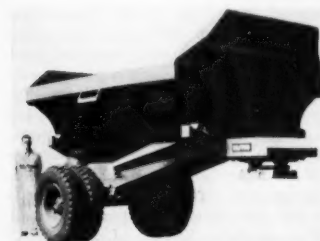
NEW EQUIPMENT • MATERIALS

dry cell battery may be used. Cable from battery to hammer can be readily disconnected at handle. Hammer is air-cooled and gets power from single, 2-cycle, full-floating piston. Fuel is regular grade motor gasoline to which lubricating oil is added. It is offered in 2 models: J-2, weighing 72 lbs., and H-6B, weighing 89 lbs. Both deliver up to 1,550 strokes per minute.



Barco J-2 portable gasoline hammer

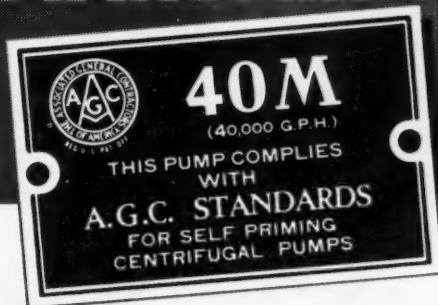
Trailers—Easton Car & Construction Co., Easton, Pa. "TP" line of side-dump trailers may be dumped to either side. They are doorless, pan-type and are offered in capacities of 14 to 20 tons. Body may be reversed from end to end to prevent excess wear on one side. Trailers are furnished with one bolt-attached stabilizer arm, interchangeable from side to side, depending on direction of dumping. Trailer is furnished as complete unit, with permanently coupled, rubber-mounted fifth wheel with mounting brackets and bolts.



Easton "TP" side-dump trailer

THE CONSTRUCTOR, JULY 1951

APPROVED STANDARDS

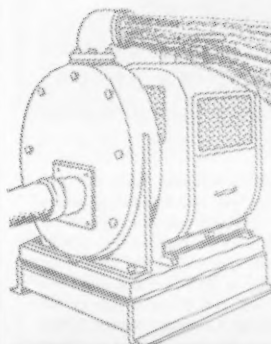


This Plate appearing on your pump is your assurance of full performance --

To assist and assure the contractor, the Pump Bureau, with approval of the A. G. C., has established certain basic standards of pump performance. Through the Pump Bureau these reliable pump manufacturers meet the standards in their products which are identified by the official A.G.C. Standards Plate.

Members of the pump bureau are competing for your business by continual improvement of design in the best American tradition of free enterprise. As developments in pump engineering improve performance of pumps, they may be upgraded by action of the A.G.C.

These standards are approved by the A.G.C. and guaranteed by the Manufacturers listed below.



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THE JAEGER MACHINE CO.
Columbus, Ohio

MARLOW PUMPS
Ridgewood, N. J.

NOVO ENGINE CO.
Lansing, Michigan

RICE PUMP & MACHINE CO.
Grafton, Wisconsin



Breaker—Duncan Roc-Jak, 1350 Wright St., Los Angeles 15. "Roc-Jak" for demolition of mass concrete or ledge rock is noiseless and dustless. It can be operated by one man. Breaker body is 24" long and 3" in diameter. Each breaker is heat-treated and piston openings are precision ground. Ten hardened $1\frac{5}{8}$ " alloy steel pistons are fitted with neoprene

cups tested to withstand 15,000 p.s.i. Each unit is equipped with equalizing shim, hydraulic pump, hose, drill rod and 6 $3\frac{1}{2}$ " drill bits. Weight of "Roc-Jak" with hose and pump is approximately 94 lbs.

Safety Vest—Industrial Products Co., 2964 N. 4th St., Philadelphia 33. "Life-Save" vest for bridge workers

and others working above water has outside of drill cloth and filling of kapok having buoyancy of 30 to 35 times its own weight. It is designed to permit free use of arms and is well ventilated. Double bend flexible waist line construction assures comfort when bending over or sitting down. It is orange color for high visibility.

Field Lubricators—Gray Co., 60 11th Ave., N.E., Minneapolis 13. Re-designed "Convoy Lubers" feature new "Powerflo" pumps for handling heavy greases. They can be mounted on truck or trailer. Lubricators are offered in 2 classifications: ready-to-work, completely assembled units and "job-planned" units selected and assembled by contractor to meet his particular greasing needs. Latter consist of pumps, hose reels and other major component parts, in any quantity or combination. Grease and oil are pumped directly from original containers or from lubricant hoppers and dispensed through reel-mounted 30' hoses. Two types of pumps are available, Mogul, with air pressure range of 20 p.s.i. to 175 p.s.i., and Standard, with air pressure range of 100 p.s.i. to 175 p.s.i. Described in Catalog 700, available from manufacturer.



UNIT is tough! UNIT is versatile! That's why you can use UNIT on any type of job requiring shovel, clamshell, magnet, dragline, trencher, grapple or backfiller. And it's easy to change from one attachment to the other, right on the job. UNIT gives you all the power and speed you need, plus these exclusive features: Automatic traction brakes . . . Disc-type clutches . . . Drop forged alloy steel gears . . . Splined shafts . . . One-piece cast gear case . . . Straight-line engine mounting. Mobile and Crawler Models Available

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FULL VISION CAB
for
GREATER
SAFETY



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SHOVELS • DRAGLINES • CLAMSHELLS
CRANES • TRENCHERS • MAGNETS

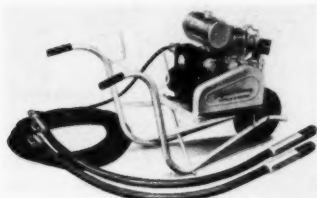
A 5066-1/2 ICA-R2



Graco "Convoy Luber"

Power Wheelbarrow—Prime-Mover Co., Muscatine, Iowa. Re-designed Model 15 "Prime Mover" has forward direct drive with half-speed reverse under power, constant mesh transmission, conveniently placed operator's controls, engine and gasoline tank located in enclosed panel on top and at rear of chassis. It is powered by 5 h.p. Wisconsin engine. Two sizes of platforms with stakes are interchangeable with bucket. Capacity is 1,500 lbs., bucket or platform load. Turning radius is 33". Unit is $31\frac{1}{2}$ " wide.

Vibrator—Master Vibrator Co., 105 Davis Ave., Dayton 1, Ohio. Lightweight portable vibrator power unit and light plant is called "Master Champ Hycle Vibrator." It weighs 172 lbs. and provides 10,300 vibrations per minute. Vibration can be provided anywhere within 300' of power unit. Two single-phase outlets are provided for 1,200 watts of lighting. It is powered by Wisconsin gasoline single-cylinder air-cooled 4.4 h.p. engine at 3,200 r.p.m. Conductor cables are furnished in 50', 100' or 150' lengths with watertight connectors. Operating vibrator cables are available in 5', 10' or 21' lengths. Illustrated folder available from manufacturer.



"Master Champ" portable vibrator

Masonry Drill Bit—New England Carbide Tool Co., Cambridge 39, Mass. "Cyclo-Core" carbide-tipped masonry drill bit is designed for drilling in hard masonry materials using rotary type drill with pressure applied, for holes $\frac{3}{4}$ " diameter and up. It has removable "Cyclo-Center" for locating and starting holes. As soon as hole is spotted it is removed. Dust is expelled by bit as it drills because of machined-in spiral threads running full length of body, making automatic runways for removing dust. Bit has port opening for cleaning out core.

More Diesel-Powered Trucks

The trend in the trucking industry toward the use of diesel-powered trucks is continuing at a rapid pace in 1951 and the future heavy-duty field looks predominantly diesel. H. B. Ford of the G.M.C. Truck and Coach Division told a recent meeting of the Northern California Section, Society of Automotive Engineers.

In 1938, Mr. Ford reported, diesel truck sales totaled only 489. In 1946 they increased to 2,000, and in 1950 they rose to 12,669.

Pile Hammer—McKiernan-Terry Corp., 18 Park Row, New York 38. New size and model double-acting pile hammer, No. 6.5, is designed primarily for driving steel sheet piling in close quarters. It is capable of driving one pile between 2 adjacent sheets and is especially suited for driving in sand. It normally operates at 280 blows per

minute, with energy of 3,200 f.p. per blow. It is suitable for 8" to 15" steel sheet piling or 6" x 12" wood sheeting or equivalent size of round timber piles. Bulletin 58-A describing hammer, giving complete specifications, dimensions, parts list and instructions for attaching angle iron guides, is available from manufacturer.

New
UNIT 1520
Self-Propelled
RUBBER-TIRED
CRANE

20 TON CAPACITY

COMPLETELY CONVERTIBLE TO ALL ATTACHMENTS

Built by modern precision methods, the UNIT 1520 leads the field in quality, and dependable performance. Designed for both "on and off" highway operation. So compact, it works efficiently even in small, cramped quarters, "in or out" of the yard. Heavy Duty, yet operated with remarkable SPEED . . . SAFETY . . . ECONOMY!

- Rugged Construction
- Perfectly Balanced
- Hook Roller Construction
- Operated by ONE Man
- Hydraulic Steering
- Powered by ONE Engine
- Air Brakes and 4 Speed Air-Actuated Transmission



UNIT 1520 can be equipped with retractable high A-Frame to permit capacity loads on extended boom at long radius.

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SHOVELS • DRAGLINES • CLAMSHELLS
CRANES • TRENCHERS • MAGNETS

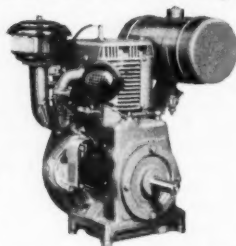
A 5413-1/2 IC-AA-R

The POWER ADVANTAGE Story of the Model AEN Single-Cylinder WISCONSIN *Air-Cooled* ENGINE

Here's more power . . . less weight . . . lower cost . . . all with no sacrifice in heavy-duty construction and serviceability in this Model AEN single-cylinder Wisconsin Engine. Features include:

1. Dependable air-cooling under all climatic and weather conditions.
2. Self-cleaning tapered roller bearings at both ends of the crankshaft withstand either side-pull or end-thrust without danger to bearings.
3. Rotary type high tension OUTSIDE Magneto with Impulse Coupling operates as an entirely independent unit that can be serviced or replaced in a few minutes.
4. Maximum torque at usable speeds for equipment that really has to go to work.

Our engineering department will gladly cooperate with you in adapting Wisconsin Engines to your requirements. Write for detailed data and name of the nearest Wisconsin distributor.



CONDENSED SPECIFICATIONS

Bore	3"
Stroke	3 1/4"
Piston Displacement	23 cu. in.

HORSEPOWER

5.1 H.P. at 1800 R.P.M.
6.4 H.P. at 2200 R.P.M.
7.2 H.P. at 2600 R.P.M.
7.5 H.P. at 3000 R.P.M.

No. of Piston Rings	4
Fuel Tank Capacity	1.7 Gals
Weight, lbs.	Net Crated
Standard Engine	110 lbs. 135 lbs.



WISCONSIN MOTOR CORPORATION

World's Largest Builders of Heavy-Duty Air-Cooled Engines
MILWAUKEE 46 WISCONSIN



**SAVES
6 to 8 hrs.
on every
breakdown**



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Feel like "ending it all"? WHEN A TRACK TENSION BOLT BREAKS

Don't do it! . . . just install a Quick-On Emergency Cap Tension Bolt, and you're going again in 30 minutes or less! Installed right on the job Quick-On's save an average of 6 to 8 hours on every breakdown . . . help you meet tough schedules by eliminating lay-up time for both men and equipment. **SAVE TIME and SAVE MONEY . . .** Keep Quick-On Emergency Cap Tension Bolts handy at all times. Order from your tractor dealer today or write direct. Immediate delivery.

EASIEST AND QUICKEST TO INSTALL



EMERGENCY CAP TENSION BOLTS

. . . . Get you going again in 30 minutes

Silver Booster MANUFACTURING COMPANY
132 W. VERDUGO AVENUE • BIRSBANK • CALIFORNIA

NEW EQUIPMENT • MATERIALS

Pipe-Laying Machine—Schield Bantam Co., Waverly, Iowa. "Crane Adaptor" for Bantam back hoe boom permits one machine to excavate, lower pipe into trench and backfill. Adaptor fits 3/8-yd. back hoe and is attached by removing hoe bucket, inserting 10" sheave near boom tip and re-threading 2 cables. It uses same boom and stick. Backfill blade also uses same boom and stick.



Schield Bantam back hoe crane adaptor

Elevator—Wilson-Albrecht Co., 3549 Wooddale Ave., Minneapolis 16. Portable elevator features rigid triangular tower and automatic reverse control. No operator is required. It can be powered by gas or electric engine and is designed to support its entire load on its 4 rubber-tired wheels. It has built-in patented safety slack brake. Leveling screws are built into base of tower. Described in Form PS-28-A available from manufacturer.

Form Clamp—Williams Form Engineering Corp., 1501 Madison Ave., S.E., Grand Rapids 7, Mich. New "Hex-Lock" clamp combines in single unit adjustable hex-lock floating nut and bracket. This clamp permits turning of metal on metal and reduces friction by not having to turn metal on wood. Described and illustrated in Circular 1150 available from manufacturer.

PRESTRESSED CONCRETE

A rational method of construction for elevated express highways, heavy underpasses, underground garages, containers and ducts carrying liquids.

L. COFF, Consulting Engineer, 198 Broadway, New York 7, N. Y., Cortland 7-2753

Pumps—Chain Belt Co., 1625 W. Bruce St., Milwaukee 4. New line of self-priming centrifugal pumps range in size from 1½" Model 4M to 6" Model 90M. Capacities range from 4,000 g.p.h. to 90,000 g.p.h. Pumps are guaranteed to meet capacity standards of Contractors Pump Bureau of A.G.C. They feature easy replacement of wearing parts; removal of cover plate makes most parts accessible. They have patented high-carbon steel air peelers and open-type impellers. Impeller shaft seal is never subjected to pumping pressure, assuring long seal life. Fully described in Bulletin 51-27 available from manufacturer.



Chain Belt 10M self-priming centrifugal pump

Scraper—American Tractor Equipment Corp., 9131 San Leandro Blvd., Oakland 3, Calif. Model H-62 2-wheel, hydraulically controlled scraper for use with John Deere "R" diesel tractor has 6-yd. capacity and will work at speeds up to 12 m.p.h. Special hitch, mounted under tractor rear axle, eliminates front wheels of scraper and transfers portion of scraper load to tractor driving wheels. It is self-loading and self-spreading. It has low center of gravity, high road clearance,



American Tractor Equipment H-62 scraper

FLEXO-SCREENS

PROVIDE EXCELLENT IDENTIFICATION
FOR YOUR EQUIPMENT

You are always sure of the finest identification with genuine FLEXO-SCREENS and so easy to apply—no experience or skill needed.



By simply placing a little of the enamel on screen and drawing applicator across it you get a perfect impression.

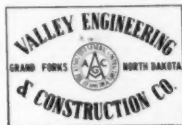
Screen fits door curves and flat surfaces with equal perfection.

Hundreds of applications of fine, yet durable lettering in weather-proof enamel that defies the elements. WILL NOT CRACK, CHIP, PEEL or FADE. LASTS FOR YEARS.

If you are economy-minded, yet like the finest identification, you will appreciate the merits of the FLEXO-SCREEN.



Shown below are miniature reproductions of customers designs as applied on equipment with FLEXO-SCREENS



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EQUIPMENT IDENTIFICATION CO.

515 Peoples Bank Bldg.

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More work

Less cost

with foolproof
RUD-O-MATIC

**TAGLINE
CONTROL**

HERE'S WHY:

You get *more work* out of a bucket that holds steady and is back in position *quicker* for another bite. Rud-O-Matic Taglines have ample coil spring power to provide constant tension for steadying the largest clamshell buckets at any angle of the boom.

You get *lower costs* through faster operation coupled with Rud-O-Matic's trouble-free service. No pins, weights or tracks to get out of whack, only the simplest of working parts. Compact — and easy to install on any crane.

Rud-O-Matic Taglines are made in 8 models for all bucket sizes, and are supplied with cable and installation equipment. *Immediate delivery from your nearby equipment dealer — or send coupon below for details.*



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CORPORATION

2131 East 25th Street • Los Angeles 58, California

NEW EQUIPMENT • MATERIALS

independent front apron and rear apron that wipes scraper bowl sides clean as load is dumped. Scraper can be unhitched quickly. Cutting edge width is 7', turning radius of tractor and scraper combination is 15'6", weight of scraper, complete with hitch assembly, is approximately 7,670 lbs. Scraper is available with single or dual tires. Front wheel assembly may be added.

Jack—Templeton, Kenly & Co., 1020 S. Central Ave., Chicago 44. Model 16A track jack, for work on temporary tracks used on construction projects, has minimum toe height of 11½" permitting placing jack under rail without removing ballast. Trip can be operated from right or left side, with operator protected by improved safety thumb guard. Over-all height is 12", lift 6". Jack weighs 45 lbs. and has capacity of 15 tons.



Templeton, Kenly's track jack

Record Perlite Production

A record production of 1,110,250 4-cubic foot bags of perlite in the second quarter of 1951 is reported by the Perlite Institute. In the first 2 years of operation, production has increased more than 400 per cent and, according to the new figures, is maintaining a sharp incline upward.

In the second quarter of 1950, 481,907 4-cubic foot bags were produced and in the second quarter of 1949, 244,803 bags.

BLADES
AND CUTTING EDGES
of Superior Quality by
Shunk

For all makes and types of road building and road maintaining machines. Also —

**BULLDOZER BLADES
BUCKET LIPS
PATENTED
SCARIFIER
AND ICE AND SNOW
REMOVAL BLADES
MOLDBOARDS
SCARIFIER TEETH**

All widths, lengths, and thicknesses; accurately punched to fit your make of machine.

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COMPANY**

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BUCYRUS, OHIO.

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CONCRETE SURFACERS



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Various interchangeable Heads and Attachments are available for grinding, wire brushing, sanding and polishing applications.

**THE CONCRETE
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CINCINNATI 32, OHIO

THE CONSTRUCTOR, JULY 1951

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PULVERIZERS and EQUIP-
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Building heavy duty Crushing
Plants for all over the world...**

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EXPENSE MANUAL**

IN THE NEW 1949 REVISED EDITION

*For general contractors
and others in the construction
industry*

- ▶ Compiles data on the average costs of owning and operating various kinds of construction machinery and equipment.
- ▶ More than 1,400 items added not included in previous editions... a total of more than 2,400 items in all.
- ▶ Includes all important items of equipment as to type and size widely used throughout the contracting industry.
- ▶ New, easier-to-read and easier-to-use typographical format.
- ▶ Approved by the 30th Annual A. G. C. Convention.

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Please send _____ copies of the 1949 edition of **CONTRACTORS' EQUIPMENT OWNERSHIP EXPENSE MANUAL** to:

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Address _____

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Earth Boring Machines—*Petersen Engineering Co., Santa Clara, Calif.* Three larger sizes of "Pengo" twin-helix earth-boring machines have diameters of 42", 48", 54". They are designed for use with all popular makes of earth-boring machines. They will bore clean, true hole of specified diameter, manufacturer claims.

Anti-Rust Paint—*Paint Corp. of America, Fidelity Bldg., Cleveland 14.* PCA-100 penetrating and sealing paint can be applied over rusted surfaces. It penetrates through rust layer into base metal and seals surface against further rusting. It is suitable for brush or spray application. It is furnished in black only and should be used only as "finish" coat, manufacturer states.

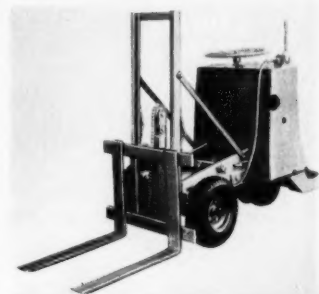
Earth Auger—*Mall Tool Co., 7725 S. Chicago Ave., Chicago 19.* Light-weight portable gasoline-engine earth auger is made with new magnesium

alloy castings. It can be equipped with 30" augers in 6", 9" or 12" diameters. Digging unit converts to chain sawing; drilling attachment is detached and replaced with chain saw assemblies available in cutting capacities from 18" to 7'.

Saw—*Millers Falls Co., Greenfield, Mass.* No. 700 7" saw weighs 11 lbs. and has 23 1/4" capacity at 90°. It will make 45° miter cuts in finished 2" lumber. It is equipped with 1/2 h.p. universal type motor. Power is transmitted to saw through precision cut, helical gears. Precision ball bearings are used throughout. Motor housing, handle and saw guards are aluminum alloy castings. Using abrasive discs, saw cuts metal, concrete, tile, etc.

Fork Lift Attachment for Power Wheelbarrow—*Kwik-Mix Co., Port Washington, Wis.* Power-driven fork

lift attachment for "Moto-Bug" has 1,000-lb. lift capacity and raises load to maximum height of 30". Forks tilt to rear when being raised and are adjustable to maximum width of 33". Standard forks are 20" long; 30" forks are optional. Total weight of "Moto-Bug" with fork lift attachment is 1,400 lbs.



Kwik-Mix fork lift for "Moto-Bug"

profits UP

manhours DOWN

for Heavy-Duty Work: **GOLD MEDAL® Safety Scaffolding Machines**

Made by America's pioneer manufacturer of suspended scaffolding. The safest, most efficient and economical suspended equipment for bricklaying, stone-setting, tile work and other heavy construction. Approved by Underwriters' Laboratories.

for Light Duty Operations: **GOLD MEDAL Junior Swinging Scaffolds**

Ideal for tuck-pointing, stone-setting, etc. Aluminum Junior Machines ideal for painting, glazing, etc. Steel wire rope replaces dangerous manila in both types. Maximum safety in raising and lowering. Quickly rigged. Operation is simple and sure. Approved by Underwriters' Laboratories, Inc.

Write for free Bulletins SS-1 and J-6 describing how these construction aids save time and money on a variety of jobs.



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38-21 12th Street, Dept CD, Long Island City 1, N. Y.
See Your Classified Telephone Directory for Nearest Office

Scaffolds for Any Purpose
Any Place — Any Time

Vibrators—*Viber Co., 726 S. Flower St., Burbank, Calif.* Folder presents Viber electric, pneumatic and gasoline internal vibrators, and Model PX-6 pneumatic external vibrator. Advantages of rubber-tipped vibrators are discussed. Specifications are given.

Trucks—*The Euclid Road Machinery Co., Cleveland 17.* Catalog describes line of rear- and bottom-dump trucks from 10 to 34 tons rated capacity, and 18 cu. yd. scraper and loader. G.M. Series 71 diesel engines which power trucks are pictured and cut-away views show engine, torque converter and Allison hydraulic transmission. Listings of Euclid and Detroit Diesel Engine Division distributors and factory branches are included.

Earth-Moving Machines—*Caterpillar Tractor Co., Peoria 8, Ill.* DW20 tractor with W20 wagon and No. 20 scraper and DW21 tractor and No. 21 scraper are presented in new booklet (Form 30160). Featured is new 6-

cylinder supercharged engine. Specifications of tractors, wagons and scrapers are given, as well as of 20S bulldozer and No. 27 cable control.

Electric Sets—Caterpillar booklet (Form 30178) illustrates use of diesel electric sets on various power applications. It outlines specifications of models ranging from 21 kw to 314 kw. Special chart for self-regulated and externally regulated sets is featured. Information is also given on types of attachments available.

Hydraulic Control for Power Cranes and Shovels—*Harnischfeger Corp., 4418 W. National Ave., Milwaukee 14.* Pocket-sized guide on operation and care of "Direct Acting" hydraulic control of P&H power cranes and shovels gives complete information on system and describes correct procedure for dismantling, adjusting and replacing parts. Keyed photos and cut-away drawings assist in identification of parts. Four-page "fold-

out" diagrammatic illustration shows entire hydraulic system.

Tractor Equipment—*Trackson Co., Dept. P, Box 728, Milwaukee 1.* Catalog 1106 covers complete line of Trackson equipment for Caterpillar tractors. Products described and illustrated include 5 sizes of "Trax-cavators," pipe layers, earth augers, "TracLoaders," swing cranes and land-clearing equipment. Specifications are included for each unit.

Trucks—*The Autocar Co., Ardmore, Pa.* Heavy-duty trucks and highway tractors working on construction jobs are shown in 6-page folder. Pictures show Autocars engaged in 14 different operations.

Tractors—*International Harvester Co., 180 N. Michigan Ave., Chicago 1.* TD-9 crawler tractor is presented in catalog (Form CR-313-A). It presents detailed specifications and information on how TD-9 develops and ap-

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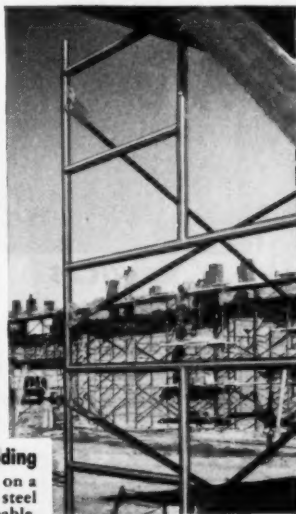
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NEW LITERATURE

plies its 40.5 drawbar h.p. Varied job application scenes are included.

Bucket Loaders—George Haiss Mfg. Co., 141st to 144th St. on Park Ave., New York 51. Models 75, 77 and 75-SBC bucket loaders are presented in Bulletin H 75-77. Each model is illustrated and detailed draw-

ings show dimensions and operation. General specifications are given. Two pages of pictures show loaders working on various jobs. Optional equipment is listed.

Excavator-Crane—Bay City Shovels, Inc., Bay City, Mich. Bay City 3½-yd. series crawler-mounted shovel,

crane, dragline, clamshell and hoe are presented in Catalog 37-45A. Heavy-duty design and construction are featured. Machinery assemblies, parts and attachments are pictured and described.

Stud Welding—K S M Products, Inc., Merchantville 8, N. J. Catalog 451 presents fundamental operating principles of stud welding process and typical applications. It also contains information on K S M stud welding equipment.

Sewer Pipe Gaskets—Universal Concrete Pipe Co., 297 S. High St., Columbus, Ohio. Engineering specifications for use of "Hexseal" rubber gaskets with reinforced concrete sewer pipe are contained in leaflet, *Specification 10*. Among subjects covered by text and drawings are: Type of pipe, dimensions, pipe design, steel reinforcement, concrete, water curing, steam curing, curing compounds and curves. Special section contains installation instructions.

Truck Lift-Gate—Hercules Steel Products Corp., Galion, Ohio. Hydraulically operated lifting gate is presented in Bulletin 2151. It describes "Load-N-Gate" available in 4 sizes and shows installation and how platform may be locked at any height for loading or unloading.

Buckets—Electric Steel Foundry Co., 2141 N.W. 25th Ave., Portland 10, Oreg. Catalog 188 illustrates and gives specifications for 5 types of "Esco" dragline buckets. Recommendations are given with each set of specifications.

Gravel Plants—Diamond Iron Works, Inc., Minneapolis 11. Three single-pass gravel plants are presented in Bulletin CP-1. Plants having capacity range from 20 to 65 tons per hour are presented. Basic units, outstanding features and full specifications are covered.

Towing Winch—Hyster Co., 2902 N.E. Clackamas St., Portland 8, Oreg. Operator's guide and general information for Hyster D7N towing winch for use with Caterpillar D7 tractor are contained in bulletin, Form 1184. Winch manual is designed to show operator how to obtain maximum performance and full utility of winch. It describes mechanical components, fundamentals and advanced operating

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instructions, typical winch operations and rigging methods, summary of efficiency reminders and glossary of winching terms.

Crushing Equipment—Diamond Iron Works has issued a bulletin (SMD-1) on its line of aggregate crushing, screening and washing equipment. It covers basic production units and portable and stationary crushing plants and portable primary crushing plants. Descriptions, sizes and illustrations of units are included.

Graders—Allis-Chalmers Tractor Division, Box 512, Milwaukee 1. AD-4 104 h.p. and AD-3 78 h.p. motor graders are presented in new catalog. Action pictures show this large equipment in operation. Features are described in detail and cut-away views show power supply, transmission and final drive.

Pipe Coupling—Naylor Pipe Co., 1230 E. 92d St., Chicago 19. Bulletin describes heavy-duty wedge-lock coupling for use on temporary or permanent pipe lines. Complete specifications on this coupling in pipe sizes from 8" to 30" in diameter are included.

Hose Fittings, Line Oilers—Worthington Pump and Machinery Corp., Dunellen, N.J. Bulletin H-1200-B44 on hose fittings, includes sizes, parts numbers and applications. Fittings include hose nipple, union nut, hose clamp, coupling spud, reducing coupling spud, spud, reducing spud, threaded pipe nipple, hose valve and splicing nipple. Specification Sheet H-1200-B45 pictures and describes 2-qt. line oiler, giving detailed specifications.

Book on Diesel Engines

A revised edition of *Standard Practices for Low and Medium Speed Stationary Diesel Engines* has been issued by the Diesel Engine Manufacturers Association. Besides additions to and clarifications of the contents of the earlier edition, new sections have been added dealing with dual fuel engines, operation and maintenance and starting systems. It is illustrated by 37 drawings and charts.

It is priced at \$5.00 a copy and may be ordered from the Diesel Engine Manufacturers Association, 1 N. LaSalle St., Chicago 2, Ill.

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John L. Wilson, vice president and director of Anheuser-Busch, Inc., has been elected a director of MACK TRUCKS, INC.

A. F. Davis, vice president and secretary of LINCOLN ELECTRIC Co., was recently honored with the degree of Doctor of Science by Mt. Union College, Alliance, Ohio.

J. S. Roscoe has been appointed director of purchasing of LINCOLN ELECTRIC Co.

MACK TRUCKS, INC., has lent 138-h.p. diesel engines to more than 20 colleges and universities for teaching and training purposes. This is in line with Mack's policy to contribute as much as it can to the development of badly needed diesel trained technicians. H. W. Dodge, executive vice president of Mack, states.

William A. Horthy, research engineer at INTERNATIONAL HARVESTER

Co.'s Melrose Park plant, retired on April 6, his 65th birthday, after 41 years with Harvester.

Edward J. Brichta has been appointed sales manager of the industrial air-cooled engine division of CONTINENTAL MOTORS CORP.

A major expansion of engine production capacity, involving new facilities to cost \$6,000,000, is announced by Irwin Miller, president of CUMMINS ENGINE Co. This third major expansion program within the past 9 months will increase production capacity at least 50 per cent over the 1950 record high level.

SKILSAW, INC., has purchased the controlling interest in Loud-Wendel, Inc., of Middleport, N. Y., manufacturer of circular wood saws, dado sets and industrial knives.

R. A. Schimpf has been appointed chief works engineer of THE TIMKEN ROLLER BEARING Co. C. M. Maratta

has been named chief consulting engineer, H. J. Urbach executive engineer and L. A. Holder chief mechanical engineer.

The dump car, trail car and general car business which has been a part of the AUSTIN-WESTERN Co., Aurora, Ill., has been transferred to BALDWIN-LIMA-HAMILTON CORP., Eddystone, Pa. The assets of Austin-Western were acquired by Baldwin-Lima-Hamilton last March. Jess Mossgrove, manager of the car department at Austin-Western, will remain in charge of that department in Eddystone.

George A. Ingalls, a director and comptroller of AMERICAN MACHINE AND FOUNDRY Co., has been elected a vice president.

Transfer to PULLMAN, INC., of substantially all of the assets of THE TRAILMOBILE Co. has been agreed on, according to a joint statement issued by Champ Carry, president of Pullman, and George Bunker, president of Trailmobile.

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MANUFACTURERS' NOTES

Charles Glocke, who has served as field service manager of FOUR WHEEL DRIVE AUTO Co. for the past 6 years, has been named manager of the service division. Bruce V. Walch has been named manager of the field service department.

Russ A. Loveland has been appointed works manager of the HALLIBURTON PORTLAND CEMENT Co. He was formerly superintendent of the Penn-Dixie Cement Corp.'s plant at Nazareth, Pa. . . . Ellroy King, vice president of Halliburton, has been appointed a member of the Cement Industry Advisory Committee of the National Production Authority.

Major W. McKean White, Jr., vice president of the WHITE MANUFACTURING Co., has been recalled to Army duty and is serving as chief of procurement inspection at the Air Force central procurement headquarters in Detroit.

R. Edward Stein has been elected vice president in charge of manufacturing for the LEWIS WELDING & ENGINEERING CORP.

B. V. Hancock, executive vice president of Cascades Plywood Corp., Portland, Oreg., has been elected president of DOUGLAS FIR PLYWOOD ASSN.

Obituary

Edwin H. Parkhurst, former president of The Euclid Road Machinery Co., died June 22. He had served as president of Euclid from 1937 until recently when R. Q. Armington was elected to the position.

A new 20,800 square foot building is being erected by the PITTSBURGH CORNING CORP. at their Port Allegany, Pa., glass block and "Foamglas" insulation plant. The new building will house the company's Research and Development Division and Engineering Department and will provide space for a machine shop and additional storage facilities. The building was designed by architects Lacy, Atherton and Davis of Wilkes-Barre and Harrisburg, Pa., General contractor is Sordoni Construction Co. (A. G. C.) Forty-Fort, Pa. Many modern features will be used in the construction of the building, including prefabricated cellular glass insulated sandwich wall units, functional light-directing glass blocks.

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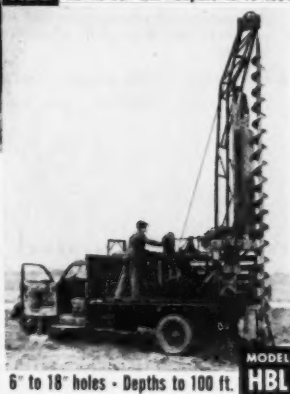
MODEL HBR Diameters to 52" - Depths to 24 ft.



MODEL HBB 12" to 30" dia. - Depths to 16 feet



MODEL HBD 12" to 42" dia. - Depths to 24 feet



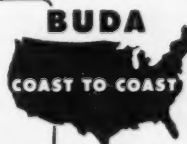
MODEL HBL 6" to 18" holes - Depths to 100 ft.

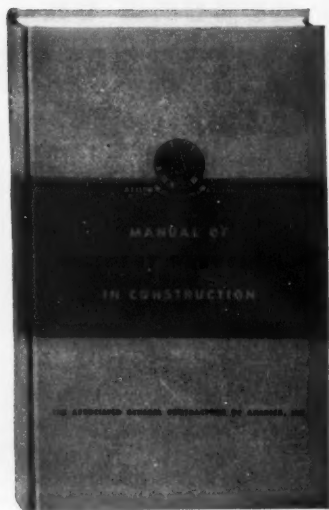
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Iowa Mfg. Co.
Standard Steel Works
White Mfg. Co.

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Coleman Floor Co.

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Worthington Pump & Machinery Corp.

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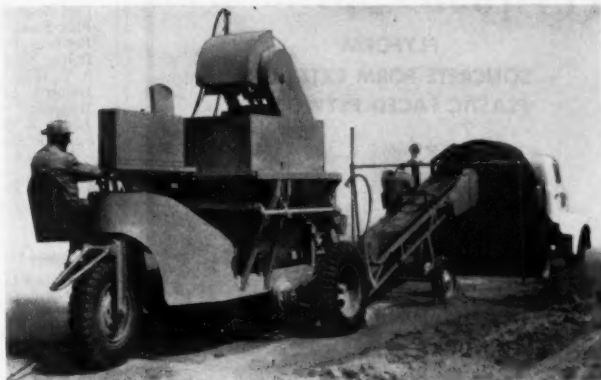
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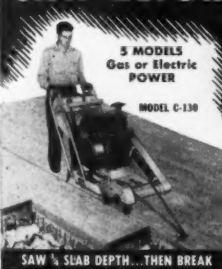
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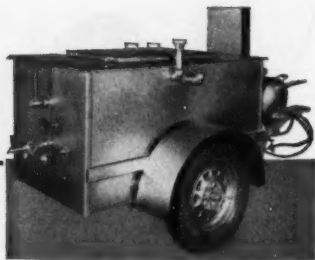
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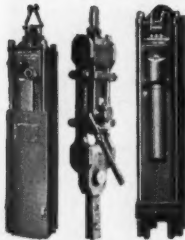


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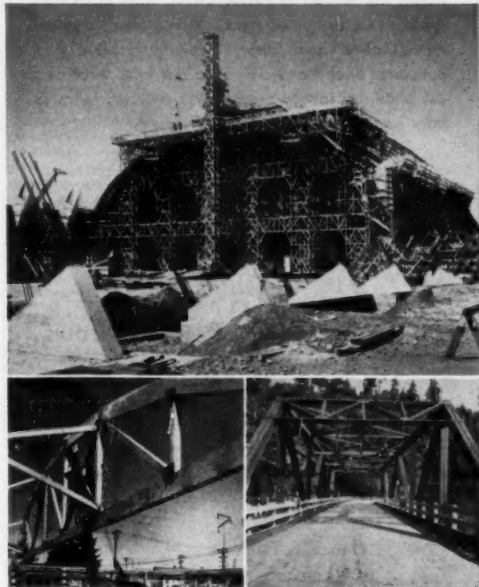
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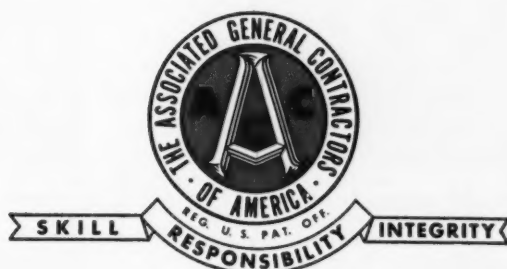
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Hv53

H53

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Hv52

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H54

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MEMBERSHIP LISTING

Alphabetical Roster

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- AAA Constr. Co., Spokane, Wash. (46c)
 A & A Asphalt Paving Co., Birmingham, Mich. (21c)
 ABC Constr. Co., Inc., Paramount, Calif. (4d)
 A & O Bldrs., New Orleans, La. (17a)
 A & W Constr. Co., Glasgow, Mont. (25a)
 Aalco Constr. Co., Evansville, Ind. (13b)
 Aalco Heavy Hauling Co., St. Louis, Mo. (24c)
 Abbitt, W. A., Co., Charleston, W. Va. (47a)
 Abel Constr. Co., Lincoln, Nebr. (26b)
 Aberthaw Co., Boston, Mass. (20b)
 Abraham, Chas. W., Williams Bay, Wis. (48b)
 Abraham, W. J., & Sons, Inc., Seymour, Ind. (13b)
 Abrahams, Sol, & Son Constr. Co., St. Louis, Mo. (24c)
 Abrams Constr. Co., Greensboro, N. C. (32a)
 Abramson, John P., Constr. Co., Des Moines, Iowa (14a) (24b)
 Accchione Contr. Co., Philadelphia, Pa. (29a)
 Ace Constr. Co., Omaha, Nebr. (26b)
 Ace Constr. Co., Seattle, Wash. (46a)
 Ace Excavators, Oakland, Calif. (4b)
 Acme Constr. Co., Modesto, Calif. (4a)
 Adair, C. A., & Co., Atlanta, Ga. (10a)
 Adair, H. B., Constr. Co., Gardena, Calif. (4d)
 Adams, A. K., & Co., Inc., Atlanta, Ga. (10a)
 Adams, B. B., Fort Worth, Texas (42c)
 Adams, C. R., Winnsboro, La. (17g)
 Adams Constr. Co., Minneapolis, Minn. (22a)
 Adams, Geo. B., Bryan, Texas (42f)
 Adams, H. C., Lexington, Ky. (16a)
 Adams, Jack, Los Alamos, N. Mex. (30a)
 Adams, John, Corpus Christi, Texas (42i)
 Adams, R. N., Kaufman, Texas (42f)
 Adams & Tate Constr. Co., Roanoke, Va. (47a)
 Adams, Wm. G., & Co., Waco, Texas (42L)
 Addazio Constr. Co., Inc., Long Island, N. Y. (31d)
 Adinolfi, John A., East Chicago, Ind. (13b)
 Adirondack Construction Corporation, Glens Falls, N. Y. (L)
 Adler Constr. Co., Loveland, Colo. (36a)
 Agabiti Bros., Inc., Trenton, N. J. (29a)
 Agnew Constr. Co., Roncerverte, W. Va. (47a)
 Agsten, H. B., Jr., Charleston, W. Va. (47a)
 Agsten, H. B., & Sons, Inc., Charleston, W. Va. (47a)
 Ahern, Wm. S., Constr. Co., Chicago, Ill. (12a)
 Ahlberg, O., & Sons, Inc., Cranston, R. I. (38a)
 Aikin, Lee, Corpus Christi, Texas (42i)
 Ainsworth, A. G., Constr. Co., Austin, Texas (42k)
 Ajax Constr. Co., The, Cincinnati, Ohio (34b)
 Akard, W. C., San Francisco, Calif. (4a)
 Akmadzich, P. J., Sunland, Calif. (4d)
 Alamo Constr. Co., Alamo, Tenn. (41c)
 Alaska Concrete Prods. Co., Anchorage, Alaska (50a)
 Alberici, J. S., Constr. Co., Inc., St. Louis, Mo. (24c)
 Albert Constr. Co., Miami, Fla. (9b)
 Albrecht, Albert A., Co., The, Detroit, Mich. (21a)
 Albrecht, E. J., Co., Chicago, Ill. (12a)
 Al-Co Co., Los Angeles, Calif. (4d)
 Alcott Constr. Co., Sumter, S. C. (32a)
 Aldous & Co., Los Angeles, Calif. (4d)
 Aldrich, W. R., & Co., Baton Rouge, La. (17e)
 Aldridge, R. G., Kansas City, Kans. (15b) (24b)
 Alexander Constr. Co., Minneapolis, Minn. (22a) (40a)
 Alexander, H. B., & Son, Inc., Harrisburg, Pa. (37a)
 Alexander & Repass, Des Moines, Iowa (14a)
 Alexandria Insulation Co., Alexandria, La. (17f)
 Alger-Rau, Inc., Cleveland, Ohio (34c)
 Allaire, P., & Sons, Inc., Bristol, Conn. (6a)
 Allegheny Asphalt & Paving Co., Pittsburgh, Pa. (37c)
 Allegheny Bldg. & Supply Co., Pittsburgh, Pa. (37b)
 Allen Constr. Co., Shreveport, La. (17b)
 Allen, Fred M., San Benito, Texas (42c)
 Allen, G. H., Vincennes, Ind. (13a)
 Allen, H. L., & Sons, Elton, La. (17c)
 Allen, H. R., Beaver, Pa. (37c)
 Allen, O. L., Co., Houston, Texas (42d)
 Allen, R. J., Contr. Co., Birmingham, Ala. (1a)
 Allen, Robt. L., Chattanooga, Tenn. (41a)
 Alley, A. L., & Son, Faribault, Minn. (22a)
 Alley Constr. Co., Inc., Bristol, Tenn. (41e)
 Allhands & Briley, Dallas, Texas (42f)
 Allhands & Swatzell, Inc., Dallas, Texas (42f)
 Alliance Constr. Co., South Pasadena, Calif. (4d)
 Allied Constr. Co., Phoenix, Ariz. (2a)
 Allied Engr. Co., Atlantic, Iowa (14b)
 Allison, H. F., Co., Dallas, Texas (42j)
 Allison & Haneey, Albuquerque, N. Mex. (30a)
 Alpine Constr. Co., St. Ignace, Mich. (21c)
 Alport-Carlo Constr. Co., St. Louis, Mo. (24c)
 Alsop, John, Wakefield, Kans. (15b)
 Alstrom Constr. Co., Muskegon, Mich. (21b)
 Altman, J. J., & Co., East St. Louis, Ill. (12d)
 Alves, Eugene G., Pittsburg, Calif. (4b)
 Alward, H. W., Inc., Bernardsville, N. J. (29a) (32a)
 Amaral, M., Petaluma, Calif. (4b)
 Ambrosius Industries, Inc., Louisville, Ky. (16a)
 American Asphalt Paving Co., Monrovia, Calif. (4d)
 American Constr. Co., Inc., Washington, D. C. (8a)
 American Constr. Co., The, Houston, Texas (42d)
 American Paving Corp., Newark, N. J. (29a)
 American Pile Driving Co., Everett, Wash. (46a)
 American Pipe & Constr. Co., Los Angeles, Calif. (4a) (4d)
 Ames Constr. Co., The, Hartford, Conn. (6a)
 Ames & Webb, Inc., Norfolk, Va. (32a)
 Amis Constr. Co., Oklahoma City, Okla. (35b)
 Amoroso, S. J., Constr. Co., San Francisco, Calif. (4a)
 Ampco Constr. Co., Montebello, Calif. (4d)
 Anaconda Constr. & Engr. Co., Ft. Lauderdale, Fla. (9b)
 Anchor Constr. Co., Muskogee, Okla. (35b)
 Anderberg, O. R., Co., Minneapolis, Minn. (22a)
 Andersen Constr. Co., Council Bluffs, Iowa (14b)
 Andersen Contr. Co., Des Moines, Iowa (14a)
 Anderson, Adolph G., Spencer, Iowa (14a)
 Anderson, Allen R., Seattle, Wash. (46b)
 Anderson, B. L., Cedar Rapids, Iowa (14a)
 Anderson Bridge Constr. Co., Tacoma, Wash. (46d)
 Anderson Bros., Rockford, Ill. (12c)
 Anderson Bros. Corp., Houston, Texas (42m)
 Anderson Co., Visalia, Calif. (4b) (4d)
 Anderson Constr. Co., Holton, Kans. (15b)
 Anderson Constr. Co., McAlester, Okla. (35b)
 Anderson Constr. Co., Tacoma, Wash. (46d)
 Anderson Constr. Co., Inc., Seattle, Wash. (50a)
 Anderson, F. B., Inc., Los Banos, Calif. (5b)
 Anderson Fair Oaks Constr. Co., Hartford, Conn. (6a)
 Anderson-Hall Co., Spokane, Wash. (46e)
 Anderson, J. Emil, & Son, Chicago, Ill. (12a)
 Anderson, J. S., Constr. Co., Spokane, Wash. (46c)
 Anderson, L. C., Co., San Diego, Calif. (4c)
 Anderson & Loer, Evansville, Ind. (13b)
 Anderson, O. E., San Jose, Calif. (4a)
 Anderson, P. B., & Co., Inc., Cut Bank, Mont. (25b)
 Anderson, P. J., & Sons, Seattle, Wash. (46a)
 Anderson, Ray, Constr. Co., Bozeman, Mont. (25b)
 Anderson & Veatch, Inc., Evansville, Ind. (13b)
 Anderson, W. D., Co., Austin, Texas (42k)
 Andersons', Inc., Charleston, W. Va. (47a)
 Andrew & Dawson, Montgomery, Ala. (1a)
 Andrews-Parker, Inc., Bryan, Texas (42d)

(Numerals after names indicate the Chapter in which member belongs—See Key to Listing of A. G. C. Units—page 217). N—National Member (page 315). L—Local Member.

Andrus, M. R., Beaumont, Texas (42h)
 Andry & Voss, New Orleans, La. (17a)
 Angelle, Robt., Breau Bridge, La. (17f)
 Angle, Chas. W., Inc., Greensboro, N. C. (32a)
 Anglin, Ross, Austin, Texas (42f)
 Ankrom & Castin, Parkersburg, W. Va. (47a)
 Ann Arbor Constr. Co., Ann Arbor, Mich. (21c)
 Anso Constr. Co., Inc., Long Beach, Calif. (4d)
 Arborio, John, Inc., Poughkeepsie, N. Y. (31d)
 Archer Bros., Inc., Atlanta, Ga. (10a)
 Archibald, F. R., Oakland, Calif. (4b)
 Archibald, J. O., Redwood City, Calif. (4b)
 Arco Co., Atlanta, Ga. (10a)
 Arenz, Theo. & J. M., Portland, Ore. (36a)
 Argentieri & Colarossi, Seattle, Wash. (46a)
 Argentieri Constr. Co., Providence, R. I. (38a)
 Ariss-Knapp Co., Oakland, Calif. (4b)
 Arizona Concrete Pipe Co., Phoenix, Ariz. (2a)
 Arizona Sand & Rock Co., Phoenix, Ariz. (2a)
 Arkwright, Stanley H., Inc., Billings, Mont. (25a) (49a)
 Armagost, Walter, Constr. Co., Wichita, Kans. (15a)
 Armbrust, E. E., North Little Rock, Ark. (3a)
 Armeo Drainage & Metal Prods., Inc., Middletown, Ohio (34b)
 Armiger Constr. Corp., Baltimore, Md. (19a)
 Armston, W. H., Co., Inc., Dunedin, Fla. (9c)
 Armstrong & Armstrong, Roswell, N. Mex. (30a) (42f)
 Armstrong & Armstrong, Wenatchee, Wash. (46b)
 Armstrong Constr. Co., Kingsport, Tenn. (41e)
 Armstrong, J. D., Co., Inc., Ames, Iowa (14a)
 Armstrong, J. R., El Cerrito, Calif. (4b)
 Arney, Arthur J., Pine Bluff, Ark. (3a)
 Arnold Constr. Co., Palm Beach, Fla. (9e)
 Arnold, L. G., Inc., Eau Claire, Wis. (48b)
 Arnold, Lewis W., Mexico, Mo. (24b)
 Arnolt Bros., Inc., Metuchen, N. J. (29a)
 Arntzen, Erling, Escanaba, Mich. (21d)
 Arrington Constr. Co., Idaho Falls, Idaho (11a)
 Arrow Petroleum Co., Forest Park, Ill. (12c)
 Arthur & Allen, Pueblo, Colo. (5b)
 Arthur Bros., Kingsville, Texas (42i)
 Artley Co., Savannah, Ga. (10a)
 Artukovich Bros., Inc., Paramount, Calif. (4d)
 Artukovich, P. & J., Inc., Los Angeles & Modesto, Calif. (4b) (4d)
 Arute Bros., Inc., New Britain, Conn. (31d)
 Arzani, Victor C., Contr. Co., Syracuse, N. Y. (31d)
 Ashbach, Otto B., & Sons, Inc., St. Paul, Minn. (22a)
 Ashby & Opperman, Bakersfield, Calif. (4a)
 Asheville Contr. Co., Asheville, N. C. (32a)
 Asheville Paving Co., Asheville, N. C. (32a)
 Ashmore Bros., Inc., Greenville, S. C. (32a)
 Ashton Bldg. Co., Tucson, Ariz. (2a)
 Ashworth & Son Co., Minneapolis, Minn. (22a) (40a)

Askevold Constr. Co., Inc., Missoula, Mont. (25b)
 Askins, C. B., Lake City, S. C. (32a)
 Aslett Constr. Co., Twin Falls, Idaho (11a)
 Asphalt Paving & Engr. Co., Tacoma, Wash. (46d)
 Asphalt Paving Materials Co., Los Angeles, Calif. (4d)
 Asphalt Roadways Co., Buffalo, N. Y. (31d)
 Asphalt Service Co., Baltimore, Md. (19b)
 Asplund Constr. Co., Enid, Okla. (15b) (42j)
 Assenmacher, W. J., Co., Lincoln, Nebr. (26a)
 Associated Constr. Co., The, Hartford, Conn. (6a)
 Associated Engrs., Palo Alto, Calif. (4b)
 Associated Pipe Line Contrs., Inc., Houston, Texas (42m)
 Associated Pipeline Welders, Inc., Colma, Calif. (4b)
 Associated Sand & Gravel Co., Everett, Wash. (46a)
 Asta Constr. Co., Rio Vista, Calif. (4b)
 Atchison, R. R., Co., The, Englewood, Colo. (5b)
 Atherton Constr. Co., Seattle, Wash. (46b) (46d)
 Atkin-Fordon Co., Detroit, Mich. (21a)
 Atkinson, C. H., Paving Co., Inc., Chilli-cothe, Mo. (15b) (24b)
 Atkinson, Guy F., Co., South San Francisco, & Long Beach, Calif.; Portland, Ore.; Seattle, Wash. (N) (4b) (4d) (25a) (36a) (46a) (46c) (46d)
 Atkinson & Jones Co., Richland, Wash. (46c)
 Atkinson, Wm. Russell, Fresno, Calif. (4b)
 Atlantic Bitulithic Co., Richmond, Va. (32a)
 Atlantic Bldg. Co., Inc., Charlotte, N. C. (32a)
 Atlantic Bldg. Corp., Columbia, S. C. (32a)
 Atlantic Constr. Co., Inc., Des Moines, Iowa (14a)
 Atlantic County Constr. Co., Atlantic City, N. J. (29a)
 Atlas Constr. Co., Waxahachie, Texas (23a)
 Atletwed, F. C., St. Clair, Mich. (21c)
 Auch, Geo. W., Co., Detroit, Mich. (21a)
 Auchter, Geo. D., Co., The, Jacksonville, Fla. (9a)
 Audish, I. G., Houston, Texas (42d)
 Augusta, Geo., Salinas, Calif. (4b)
 Austin Bridge Co., Dallas, Texas (17c) (42f)
 Austin, E. E., & Son, Erie, Pa. (37a)
 Austin Road Co., The, Dallas, Texas (42f)
 Austin, Robt. W., Seattle, Wash. (46a)
 Avery Constr. Co., Inc., Washington, D. C. (8a)
 Avery Lumber Co., Inc., Sumter, S. C. (32a)
 Ayers-Hagan-Booth, Inc., Providence, R. I. (38a)
 Ayling Asphalt & Paving Co., Adrian, Mich. (21c)

B

B. D. & W., Inc., Carlisle, Pa. (37a)
 B & M Constr. Corp., Oklahoma City, Okla.; Seattle, Wash. & Ladd Field, Alaska (42j) (46a) (50a)
 B & Q Constr. Co., New Orleans, La. (17a)
 B. & R. Constr. Co., San Francisco, Calif. (4a)

B & W Constr. Co., Inc., Baltimore, Md. (19b)
 Baab Constr. Co., Greeley, Colo. (5b)
 Babcock Constr. Co., Wausau, Wis. (48b)
 Babcock, W. C., Constr. Co., Rensselaer, Ind. (13a)
 Babler Bros., Portland, Ore. (36a)
 Babler Bros. & Rogers Constr. Co., Portland, Ore. (50a)
 Bacco Constr. Co., Iron Mountain, Mich. (21c)
 Bachmann, Geo., Co., Camden, N. J. (37d)
 Bader, J. A., & Co., Inc., Wilmington, Del. (7a)
 Bader, J. A., II, Wilmington, Del. (7a)
 Badraun, J. J., Seattle, Wash. & Girdwood, Alaska (46a) (50a)
 Baer, Paul M., & Son, Los Angeles, Calif. (4d)
 Bagnall, C. B., Torrance, Calif. (4d)
 Bahen, Jos. B., Constr. Co., Inc., Washington, D. C. (8a)
 Bahr Constr. Co., Manitowoc, Wis. (48b)
 Bahre, Geo., Co., Indianapolis, Ind. (13b)
 Bail, C. R., Harrison, Mont. (25a)
 Bailey-Brazell Constr. Co., Inc., Greenville, S. C. (32a)
 Bailey, Jay, Constr. Co., Lafayette, Calif. (4b)
 Bailey, Wm. M., Co., Boston, Mass. (20b)
 Bair, Roy L., & Co., Spokane, Wash. (46c) (46e)
 Baker & Coombs, Inc., Morgantown, W. Va. (47a)
 Baker, Earl W., Co., Oklahoma City, Okla. (42j)
 Baker, G. W., Holton, Kans. (15b)
 Baker & Hickey Co., The, Columbus, Ohio (34d)
 Baker, Jack W., Woodland Hills, Calif. (4d)
 Baker-Mitchell-Thwing Co., San Bernardino, Calif. (4d)
 Baker, Myron, Gilmore City, Iowa (14a)
 Baker, Roy, Ozawkie, Kans. (15b)
 Baker, W. E., Constr., West Durham, N. C. (32a)
 Baker, Wm. D., Co., Philadelphia, Pa. (37d)
 Baldwin Bros. Paving Co., Cleveland, Ohio (37c)
 Baldwin Co., The, Little Rock, Ark. (3a)
 Baldwin, L. E., Inc., Seattle, Wash. (46b) (50a)
 Baldwin, Straub Corp., San Rafael, Calif. (4b)
 Ball, N. M., Sons, Berkeley, Calif. (4b)
 Ball, R. F., Constr. Co., Inc., Houston, Texas (42d) (42i)
 Ball & Simpson, Berkeley, Calif. (4b)
 Ball, Stanley, Alhambra, Calif. (4d)
 Ballenger Paving Co., Greenville, S. C. (32a)
 Ballinger, R. C., Co., Narberth, Pa. (37d)
 Ballinger, W. R., & Son, San Francisco, Calif. (4b)
 Ballou Constr. Co., Lumberton, N. C. (32a)
 Ballou, R. R., Constr. Co., Salina, Kans. (15b)
 Baltes, A. J., Inc., Norwalk, Ohio (34d) (37c)
 Baltimore Asphalt Block & Tile Co., Baltimore, Md. (19b)
 Baltimore Contrs., Baltimore, Md. (19a)
 Bancheri, Chas., Hammononton, N. J. (29a)
 Bangert Bros. Constr. Co., Overland, Mo. (24c)

A.G.C. DIRECTORY

- Bank Bldg. & Equip. Corp. of America, St. Louis, Mo. & Washington, D. C. (24c) (8a)
- Banta Constr. Co., Harper, Kans. & Oklahoma City, Okla. (15b) (35b)
- Barbarossa & Sons, Inc., St. Cloud, Minn. (22a)
- Barber Bros. Co., Baton Rouge, La. (17e)
- Barber, E. E., Constr. Co., Ft. Smith, Ark. (35b)
- Barber, Walter H., La Mesa, Calif. (4c)
- Barbottini, E., San Francisco, Calif. (4b)
- Barbour & Short, Norman, Okla. (35a)
- Barcus, L. G., & Sons, Inc., Kansas City, Kans. (15b)
- Bardell, Robt., Oakland, Calif. (4a)
- Barge-Thompson Co., Atlanta, Ga. (10a) (32a)
- Barger, Chas. W., & Son, Lexington, Va. (45a)
- Barger Constr. Co., Inc., Mooresville, N. C. (32a)
- Barker, Ellis W., Co., Salt Lake City, Utah (43a)
- Barker-Rose Constr. Co., Marshalltown, Iowa (14a)
- Barker, Walter H., Inc., Taunton, Mass. (20b)
- Barmac Constr. Co., Inc., Chester, Ill. (12d)
- Barnes, Andrew T., Cass City, Mich. (21c)
- Barnes Constr. Co., Grand Rapids, Mich. (21b)
- Barnes, H. D., Inc., Greensboro, N. C. (32a)
- Barnes, Jas. I., Constr. Co., Logansport, Ind. & Los Angeles, Calif. (4d) (13b)
- Barnes, Jos. L., San Francisco, Calif. (4a)
- Barnes-Mattison, Inc., Minneapolis, Minn. (22a)
- Barnes, W. M., Co., Los Angeles, Calif. (4d)
- Barney, L. P., Helena, Mont. (25b)
- Barney, W. J., Corp., New York, N. Y. (1) (6a) (31c)
- Barnhart & Wheeler, Pocatello, Idaho (11a)
- Barnhill & Long, Inc., Tarboro, N. C. (32a)
- Barr, C. M., Company, Columbus, Ohio (1)
- Barr, G. W., Constr. Co., Tacoma, Wash. (46d)
- Barr, Gleason & Barr, Inc., New York, N. Y. (31c)
- Barrett, Albert E., Trenton, N. J. (29a)
- Barrett & Hilp, San Francisco & Los Angeles, Calif. (4a) (4d)
- Barringer Bros., Richfield, N. C. (32a)
- Barrus Constr. Co., Kinston, N. C. (32a)
- Barry Co., The, Detroit, Mich. (21a)
- Barth Constr. Co., Pittsburgh, Pa. (37c)
- Bartholomew, B. W., Charlotte, N. C. (32a)
- Bartholomew, J. G., Dallas, Texas (42j)
- Bartholow, W. E., & Son Constr. Co., Huron, S. Dak. (40a)
- Bartlett-Brainard Co., Hartford, Conn. (6a)
- Bartley & Binings, New Orleans, La. (17a)
- Barton-Malow Co., Detroit, Mich. (21a)
- Bartram, Wilmer W., Grandview, Wash. (46b)
- Baruch Corp., Los Angeles, Calif. (4d)
- Basanda Constr. Co., Oklahoma City, Okla. (35a)
- Basich Bros. Constr. Co., Garvey, Calif. (4d)
- Bass, D. C., & Sons Constr. Co., Enid, Okla. (35a)
- Bass Engr. & Constr. Co., Birmingham, Mich. (21a)
- Bass, G. E., & Co., Jackson, Miss. (23b)
- Bass, Jos. A., Co., Minneapolis, Minn. (22a)
- Bassett Constr. Co., Inc., Wichita, Kans. (15b)
- Batchelder & Hazen, Fairbanks, Alaska (50a)
- Bate, Thos., & Sons, Houston, Texas & Denver, Colo. (5a) (42d) (42j)
- Bateman, J. C., San Jose, Calif. (4b)
- Bates & Rogers Construction Corporation, Chicago, Ill. & San Francisco, Calif. (N) (4b) (12c) (37c)
- Baton Constr. Corp., Philadelphia, Pa. (37d)
- Batson, C. A., Co., Brockton, Mass. (20b)
- Batson-Cook Co., Inc., West Point, Ga. (10a)
- Bauer Bros. Constr. & Supply Co., Belleville, Ill. (12d)
- Bauer Constr. Co., Inc., Milwaukee, Wis. (48a)
- Bauer, Martin L., Construction Company, Middletown, Ohio (L)
- Baugh Co., The, Seattle, Wash. (46b)
- Baugh & Scott, San Antonio, Texas (42e)
- Baughman & Blair, Rochester, N. Y. (31d)
- Baughman, Roy, Oklahoma City, Okla. (35b)
- Baulne & Frieske, Yardley, Wash. (46c)
- Baumann, Geo. E., Nevada, Mo. (15a)
- Baumeister, Wm., Constr. Co., St. Paul, Minn. (22a)
- Baun Constr. Co., Fresno, Calif. (4b)
- Baxter Constr. Co., Houston, Texas (42d)
- Baxter, Don, Sicily Island, La. (17g)
- Bay City Constr. Co., Mobile, Ala. (1a)
- Bay Constr., Inc., Seattle, Wash. (46a)
- Bay State Dredg. & Contr. Co., East Boston, Mass. (20a)
- Baya, Harry, Constr. Co., Inc., Tampa, Fla. (9c)
- Bays Mountain Constr. Co., Kingsport, Tenn. (41e)
- Beacon Constr. Co., Allston, Mass. (20b)
- Beall, I. G., Phoenix, Ariz. (2a)
- Beals, A. C., Co., Providence, R. I. (38a)
- Bear Bros., Inc., Montgomery, Ala. (1a)
- Beattie Corp., The, Fall River, Mass. (20a)
- Beauchamp, Victor R., Inc., Washington, D. C. (8a)
- Beaumont Constr. Co., Beaumont, Texas (42h)
- Beaver Asphalt Paving & Constr. Co., New Brighton, Pa. (37c)
- Bechtel Corp., San Francisco & Los Angeles, Calif. & St. Louis, Mo. (2a) (4b) (4d) (26c) (42m)
- Beck, Henry C., Co., Atlanta, Ga. & Dallas, Texas (10a) (42a)
- Beck, O. J., & Sons, Corpus Christi, Texas (42i)
- Beck-Utah-Hopkins, Albuquerque, N. Mex. (30b)
- Beckelheimer, W. T., Jackson, Miss. (23b)
- Beckenbauer Bros., Norfolk, Nebr. (26a)
- Becker Constr. Co., Newark, N. J. (1)
- Becker, H. L., & Co., Seattle, Wash. (46b)
- Becker, Peter, Calumet City, Ill. (13b)
- Becker, Roland H., Inc., Elm Grove, Wis. (48a)
- Beckering Constr. Co., Grand Rapids, Mich. (21b)
- Beckett & Federighi, Oakland, Calif. (4a)
- Beckham, E. M., Constr. Co., Perry, Ga. (10a)
- Beckman, J. H., Constr. Co., Sioux Falls, S. Dak. (40a)
- Becksmith Engr. Co., Pittsburgh, Pa. (37c)
- Bedders, Wm. E., Brookline, N. H. (28a)
- Beebe, Del R., Constr. Co., Eugene, Oreg. (36a)
- Beebe, John C., Grand Forks, N. Dak. (33a)
- Beerman & Jones, Sonora, Calif. (4b)
- Beers Constr. Co., Atlanta, Ga. (10a)
- Beers, Gilbert, Atlanta, Ga. (10a)
- Behrens Constr. Co., Beatrice, Nebr. (26b)
- Bell, Braden, Barker & Gilvin, Amarillo, Texas (42f)
- Bell, Ralph A., Monrovia, Calif. (4b) (4d)
- Bell, W. S., Allentown, Pa. (37a)
- Bellamy, J. H., Shreveport, La. (17b)
- Bellardino, John, Inc., Seneca Falls, N. Y. (31d)
- Bellevue Constr. Co., Bellevue, Wash. (46a)
- Bellows, W. S., Constr. Corp., Houston, Texas (35a) (42d)
- Ben Constr. Co., Pittsburgh, Pa. (37c)
- Benbow, Frank, Wichita, Kans. (15b)
- Benderoff, V. C., Des Moines, Iowa (14a)
- Bengal, A. M., Spokane, Wash. (46e)
- Ben Hur Constr. Co., St. Louis, Mo. (24c)
- Benike, Alvin E., Rochester, Minn. (22a)
- Bennett, C. T., Constr. Co., Kings Mountain, N. C. (32a)
- Bennett Constr. Co., Topeka, Kans. (15a) (15b)
- Bennett Constr. Co., Kansas City, Mo. (24a)
- Bennett, Geo., Constr. Co., Kansas City, Kans. (15b) (24b)
- Bennett, Henry C., Co., Dallas, Texas (42a)
- Bennett, Jos. E., Co., Inc., Boston, Mass. (20b)
- Bennett-Stewart Co., Inc., Boston, Mass. (20b)
- Bennett, W. H., Constr. Co., Kansas City, Kans. (15b)
- Bennett, W. H., & Reece Constr. Co., Kansas City, Kans. (24b)
- Benold, A., Wilson, Bend, Oreg. (36a)
- Benson, Roy, & Son, Stephen, Minn. (22a)
- Bent Constr. Co., Los Angeles, Calif. (4d)
- Bentley, A., & Sons Co., The, Toledo, Ohio (34e)
- Bentley Constr. Co., Milwaukee, Wis. (48a)
- Bentley, Thos. H., & Son, Inc., Milwaukee, Wis. (48a)
- Benton, John A., Constr. Co., Inc., St. Petersburg, Fla. (9c)
- Bentson Contr. Co., Phoenix, Ariz. (2a)
- Benz, Dale, Inc., Phoenix, Ariz. (2a)
- Benzing, A., & Sons, Hamilton, Ohio (L)
- Berez & Son, Bloomington, Ill. (12c)
- Berg, Chris, Inc., & Assos., Anchorage, Alaska (50a)
- Bergesen, Sam, Tacoma, Wash. (46d)
- Berggren, Harry F., & Sons, Scottsbluff, Nebr. (26b)
- Bergstrom, H. R., & Robt. B. Yates, Marshall, Texas (42n)
- Berkebile Bros., Johnstown, Pa. (37a)
- Bermingham, J. W., Constr. Co., Inc., Corpus Christi, Texas (42i)
- Bernard & Byrd, Mobile, Ala. & New Orleans, La. (1a) (17a)

(Numerals after names indicate the Chapter in which member belongs—See Key to Listing of A. G. C. Units—page 217). N—National Member (page 315). L—Local Member.

- Berns Constr. Co., Indianapolis, Ind. (13a)
 Bero Engr. & Constr. Corp., Buffalo, N. Y. (31d)
 Berretta Constr. Co., Exeter, Pa. (37a)
 Berry, C. B., Denver, Colo. (5b)
 Bertelsen Constr. Co., Houston, Texas (42d)
 Best, Glenn R., Constr. Co., Longmont, Colo. (26a)
 Bester-Long, Inc., Hagerstown, Md. (19b)
 Betpouey, Clement, Jr. & Co., New Orleans, La. (17a)
 Bey, Roy K., Cedar Rapids, Iowa (14b)
 Beyer & Abrahamson, Los Angeles, Calif. (4d)
 Bianchi, Carlo, and Company, Inc., Framingham, Mass. (L) (31d)
 Biasotti, Louis, & Son, Stockton, Calif. (4b)
 Biba, W. A., Engr. Co., Geneva, Nebr. (26b)
 Bickel, Henry, Co., Inc., Louisville, Ky. (16b)
 Bickerton, W. E., Constr. Co., Inc., Baltimore, Md. (19a)
 Bickhard Constr. Co., Denver, Colo. (5a)
 Biesinger, Geo. L., & Son, Salt Lake City, Utah (43a)
 Big Horn Constr. Co., Sheridan, Wyo. (49a)
 Bigge Drayage Co., Oakland, Calif. (4b)
 Bigler & Bigler, Corpus Christi, Texas (42i)
 Biles, J. B., Constr. Co., McAlester, Okla. (35b)
 Bilhorn, Bower & Peters, Inc., Clayton, Mo. (24b)
 Binghamton Constr. Co., Inc., Binghamton, N. Y. (31d)
 Birbeck, L. J., Oswego, Ore. (46a)
 Birch, S., & Sons Constr. Co., Great Falls, Mont. & Seattle, Wash. (25a) (45a) (49a) (50a)
 Birchby & Nauman, Inc., Denver, Colo. (5b)
 Bird Development Co., Stockton, Calif. (4b)
 Birdsall, John H., Jr., Palm Beach, Fla. (9e)
 Birkemeier & Saremal, Portland, Ore. (36a)
 Birmingham Constr. Co., Birmingham, Mich. (21a)
 Bishop, E. B., Orland, Calif. (4b)
 Bishop & Lock Constr. Co., Dallas, Texas (42m)
 Bisson, W. M., & Son, Laconia, N. H. (28a)
 Biwakel Gravel Co., Inc., Virginia, Minn. (22a)
 Black Hills Constrs., Inc., Rapid City, S. Dak. (49a)
 Black, J. J., & Co., Atlanta, Ga. (10a)
 Blackburn, W. H., Constr. Co., Oklahoma City, Okla. (35b)
 Blackburn & Whiteside Constr. Co., Mammoth Spring, Ark. (24b)
 Blacktop Constr. Co., Inc., Billings, Mont. (25a)
 Blacktop Surfacing Co., Emporia, Kans. (15b)
 Blackwell Engr. Co., Warrenton, Va. (45a)
 Blades, A. L., & Sons, Hornell, N. Y. (31d)
 Blair, A. Farnell, Co., Inc., Atlanta, Ga. (10a)
 Blair Bros. Constr. Co., Quinter, Kans. (15b)
 Blakeslee, C. W., & Sons, Inc., New Haven, Conn. (6a)
 Blakeslee, E. H., Constr. Co., Great Falls, Mont. (25a)
 Blakeslee Rollins Corp., Boston, Mass. (20a)
 Blakeslee Spiering Co., Ukiah, Calif. (4b)
 Blanchard Bros., Denver, Colo. (5b)
 Blanchard, Carver, Baton Rouge, La. (17d)
 Blanchard, Wm. L., Co., Newark, N. J. (L)
 Bland, Joe, Constr. Co., Austin, Texas (42j)
 Blankenship Bros., Charlotte, N. C. (32a)
 Blanks, H. B., Constr. Co., Vidalia, La. (23a)
 Blaser, Frank E., Bldg. Co., Wichita, Kans. (15a)
 Blattner, D. H., & Sons, Albany, Minn. (22a)
 Blauner Constr. Co., Chicago, Ill. (12a)
 Blaw-Knox Constr. Co., Pittsburgh, Pa. (4d) (42d)
 Blomquist Oil Service, Inc., Redwood City, Calif. (4b)
 Blue River Sand & Gravel Co., Irving, Kans. (15b)
 Blue, W. A., Co., Clayton, Mo. (24c)
 Blue Water Excavating Co., Port Huron, Mich. (21c)
 Blum, Frank L., & Co., Winston-Salem, N. C. (32a)
 Blunk, J. C., Constr. Co., Ottumwa, Iowa (14a)
 Blythe Bros. Co., Charlotte, N. C. (32a)
 Blythe & Isenhour, Charlotte, N. C. (32a)
 Boatright-Smith, Rawlins, Wyo. (49a)
 Bobier Constr. Co., Twin Falls, Idaho (11a)
 Bobo, Fabian, San Rafael, Calif. (4b)
 Bock Co., Los Angeles, Calif. (4d)
 Bock Constr. Co., Inc., Dallas, Texas (42a)
 Boen, Olav, Constr. Co., Seattle, Wash. (46b)
 Boen-Sealand Constrs., Seattle, Wash. (50a)
 Boespflug, J. C., Constr. Co., Billings, Mont. & Seattle, Wash. (25a) (25b) (46a) (46b) (50a)
 Boh Bros. Constr. Co., New Orleans, La. (17a)
 Bolander, Carl, & Sons Co., Minneapolis, Minn. (22a)
 Bolduc, L. H., & Co., Minneapolis, Minn. (22a)
 Bollinger, J. J., Constr. Co., Oklahoma City, Okla. (35a)
 Bolton-Pratt Co., The, Cleveland, Ohio (34c)
 Bonander & Co., Minneapolis, Minn. (22a)
 Bond Bros., Inc., Everett, Mass. (20b)
 Bond, E. Lee, Contractor, Inc., Houston, Texas (42d)
 Bondgard Constr. Co., Racine, Wis. (48b)
 Bonsteel & Hyde, Pierre, S. Dak. (40a)
 Bong, Clifford C., & Co., Arcadia, Calif. (2a) (4d)
 Bonnell Constr. Co., Tacoma, Wash. (46d)
 Bontrager Constr. Co., Elkhart, Ind. (13a)
 Bonvicini Bldg. Co., Torrington, Conn. (6a)
 Bookout, W. T., Constr. Co., Las Vegas, N. Mex. (30a)
 Boone Contr. Co., Nashville, Tenn. (41d)
 Boone, S. J., Owensboro, Ky. (16a)
 Booth & Flinn Co., Pittsburgh, Pa. (37c)
 Booth & Olson, Inc., Sioux City, Iowa (14a)
 Boquet Constr. Co., Inc., Pittsburgh, Pa. (37c)
 Borchman, A., Sons, Omaha, Nebr. (26a)
 Borden, Val, Constr. Co., Salina, Kans. (15a)
 Bormolini, Louis, & Son, Novato, Calif. (4b)
 Bornstein, Ale, Inc., Louisville, Ky. (16b)
 Bosso & Ritchie, Inc., Ravenswood, W. Va. (47a)
 Bossi Constr., Inc., Boston, Mass. (20b)
 Bost, P. M., Mobile, Ala. (1a)
 Bott, C. N., New Orleans, La. (17a)
 Boudwin, Walker, Constr. Co., Reno, Nev. (27a)
 Bouligny, R. H., Inc., Charlotte, N. C. (32a)
 Bouten, Gus J., Constr. Co., Spokane, Wash. (46c)
 Bowe Contr. Co., Inc., Augusta, Ga. (32a)
 Bowen, R. A., Constr. Co., Macon, Ga. (10a)
 Bowerman Bros., Providence, R. I. (38a)
 Bowerman Bros., Berryville, Va. (45a)
 Bowers Bldg. & Constr. Co., Salt Lake City, Utah (43a)
 Bowers & Chilton, Inc., Charleston, W. Va. (47a)
 Bowers Constr. Co., Raleigh, N. C. (32a)
 Bowers Constr. Co., Inc., Topeka, Kans. (15a)
 Bowers & Darrow, Phoenix, Ariz. (2a)
 Bowman Constr. Co., Inc., Marion, Ind. (13b)
 Bowman, Dave, Constr. Co., Knoxville, Tenn. (41b)
 Boyajohn, Haig M., & Assos., Inc., Columbus, Ohio (34b)
 Boyce Co., Clearwater, Fla. (9c)
 Boyd & Goforth, Inc., Charlotte, N. C. (32a)
 Boyd, H. R., Co., Inc., Dearborn, Mich. (21c)
 Boyd, J. O., Constr. Co., Dallas, Texas (42a)
 Boyette, M. E., Constr. Co., Kensett, Iowa (14a)
 Boyle Constr. Co., Sumter, S. C. (32a)
 Boyle, M. J., & Co., Chicago, Ill. (12a)
 Bradbury, O. G., Albuquerque, N. Mex. (30b)
 Bradbury, P. A., Constr. Co., Aberdeen, S. Dak. (33a) (40a)
 Braden Constr. Co., Griswold, Iowa (14a)
 Bradfield, J. P., Columbus, Ga. (10a)
 Bradford Bldrs., Inc., Miami, Fla. (9b)
 Bradley & Dysart, Phoenix, Ariz. (2a)
 Bradshaw, L. S., & Sons, Salisbury, N. C. (32a)
 Brady Constr. Co., Seattle, Wash. (46a)
 Brady, E. P., & Co., Flint, Mich. (21c)
 Brady, Geo. J., Co., Inc., Hamden, Conn. (6a)
 Brady, John T., & Co., Inc., New York City (31c)
 Bragato Paving Co., San Carlos, Calif. (4b)
 Bralei Homes, Inc., North Little Rock, Ark. (3a)
 Brandt, Alfred, Escanaba, Mich. (21d)
 Brandt Bros. & Co., Indianapolis, Ind. (13b)
 Brann & Stuart Co., Philadelphia, Pa. (29a)
 Branton, M. O., Constr. Co., Little Rock, Ark. (3a)
 Braselton Constr. Co., Corpus Christi, Texas (42i)
 Brasfield, Thos. C., Birmingham, Ala. (1a)
 Braun, C. F., & Co., Alhambra, Calif. (4d)
 Braun, Carl, & Son, Jackson, Mich. (21b)
 Braund Constr. Co., Inc., Anchorage, Alaska (50a)
 Bray, Edw. E., Co., Inc., Bridgeport, Conn. (6a)
 Bray Constr. Co., Inc., Mobile, Ala. (1a)
 Bray, J. N., Co., Valdosta, Ga. (10a)
 Brayman Constr. Co., Pittsburgh, Pa. (37c)
 Brazier Constr. Co., Seattle, Wash. (46b)
 Breeden & Smith, Anchorage, Alaska (50a)
 Breen, J. P., Sacramento, Calif. (4b)
 Bremer, C. C., & Co., Niagara Falls, N. Y. (31a)
 Bremer, J. C., Hillsboro, Ill. (12c)
 Brennan, J. P., Redding, Calif. (4b)
 Brennan, J. W., Pocatello, Idaho (11a)
 Brennan, Thos. P., Inc., Dallas, Texas (42a)
 Brenneman, J. E., Co., Philadelphia, Pa. (37d)
 Brenner & Myshka Co., Inc., Wichita, Kans. (15a)

A.G.C. DIRECTORY

- Breslin Constr. Co., Inc., Louisville, Ky. (16a) (13a)
- Bressi & Bevanda Constrs., Inc., North Hollywood, Calif. (4b) (4d)
- Brewer & Brewer Sons, Inc., Chillicothe, Ohio (34d)
- Brewer Co., Madeira, Ohio (34b)
- Brewer Co. of Florida, Inc., The, Miami, Fla. (9b)
- Brewer & McMichael, Inc., Holdenville, Okla. (35b)
- Brewer, N. E., Co., Winston-Salem, N. C. (32a)
- Brewster, Geo. M., & Son, Inc., Bogota, N. J. (29a)
- Brezina, A. J., & Sons, Osnabrock, N. Dak. (33a)
- Brezina Construction Company, Inc., Rapid City, S. Dak. (L)
- Brezner, Barnett, Alexandria, La. (17f)
- Brice Bldg. Co., Inc., Birmingham, Ala. (1a) (17a)
- Bride & Didier, Sioux City, Iowa (14b)
- Bridges, C. G., Escanaba, Mich. (21c)
- Bridges, E. C., Heath Springs, S. C. (32a)
- Bridges Paving Co., St. Louis, Mo. (12c) (24c)
- Brien Bldg. Co., Inc., Woonsocket, R. I. (38a)
- Briggs, A. R., Constr. Co., Macon, Ga. (10a)
- Briggs Constr. Co., Tacoma, Wash. (46d)
- Briggs, R. W., & Co., San Antonio, Texas (42f)
- Brighton Sand & Gravel Co., Sacramento, Calif. (4b)
- Brighton & Wing, Detroit, Mich. (21c)
- Brinkley, E. P., Raleigh, N. C. (32a)
- Brinkley, John H., Thomasville, N. C. (32a)
- Brinkley, W. F., & Son Constr. Co., Inc., Granite Quarry, N. C. (32a)
- Briscoe, Frank Co., Inc., Newark, N. J. (L)
- Briscoe, J., Stillwater, Okla. (35b)
- Brisey Lumber Co., The, Anderson, S. C. (32a)
- Bristol, Mark, Oakland, Calif. (4a)
- Brittain & Gibbins, Fort Worth, Texas (42f)
- Brittain-Pattillo Co., Decatur, Ga. (10a)
- Brittain, J. P., & Co., Portland, Oreg. (36a)
- Britton Contr. Co., Inc., Washington, Pa. (42m)
- Broad, John, Constr. Co., Austin, Texas (42k)
- Broce Constr. Co., Woodward, Okla. & Dodge City, Kans. (15b) (35b)
- Broce & Smith, Inc., Larned, Kans. (15b)
- Brock, M. J., & Sons, Inc., Los Angeles, Calif. (4d)
- Brockhaus, Ed., Shreveport, La. (17b)
- Brockmeyer Constr. Co., St. Louis, Mo. (24c)
- Brockob, R. L., Constr. Co., Chicago, Ill. (12a)
- Brodie Constr. Co., Amarillo, Texas (42m)
- Brogan Constr. Co., Des Moines, Iowa (14a)
- Brogdon Bros., Memphis, Tenn. (41c)
- Brommer, O. G., Belleville, Kans. (15b)
- Brookfield Constr. Co., Inc., New York, N. Y. (29a)
- Brooklawn Constr. Co., The, Hartford, Conn. (6a)
- Brooklyn Engr. Corp., Baltimore, Md. (19a)
- Brooks Constr. Co., Ft. Wayne, Ind. (13a)
- Brooks, Larry T., Tulsa, Okla. (35a)
- Brose Constr. Co., Cincinnati, Ohio (34b)
- Brosnahan, Earl F., Kansas City, Mo. (15b)
- Brosz, Paul, & Sons, Inc., Philadelphia, Pa. (37d)
- Brotemarkle, S. T., Constr. Co., Cumberland, Md. (19b) (37c)
- Brotherton, Fred J., Inc., Hackensack, N. J. (L)
- Broughton, O. J., Dallas, Texas (42j)
- Broussard, A. B., Baton Rouge, La. (17d)
- Browder, Earl T., Inc., St. Albans, W. Va. (47a)
- Brown, Alfred, Constr. Co., Salt Lake City, Utah (43a)
- Brown Bros., Chattanooga, Tenn. (41a)
- Brown Bros. Constr. Co., Manhattan, Kans. (15b)
- Brown & Brown, Inc., Salina, Kans. (15b)
- Brown, Chas. T., Co., San Fernando, Calif. (4d)
- Brown Constr. Co., Colorado Springs & Pueblo, Colo. (5b) (49a)
- Brown Constr. Co., Houston, Texas (42d)
- Brown Constr. Co., The, Cleveland, Ohio (34c)
- Brown Contr. Co., Albuquerque, N. Mex. (30a)
- Brown, Dave L., Chattanooga, Tenn. (41a)
- Brown-Ely Co., El Cerrito, Contra Costa County, Calif. (4b)
- Brown-Hawkins Constr. Co., Kansas City, Mo. (24a)
- Brown, J. M., Constr. Co., Inc., Shreveport, La. (17b)
- Brown, M. Clint, Co., Longview, Texas (42n)
- Brown, M. W., Redding, Calif. (4b)
- Brown, Marvin, Inc., Houston, Texas (42f) (42j)
- Brown Paving Co., Lexington, N. C. (32a)
- Brown & Root, Inc., Houston & Austin, Texas (42f) (42j)
- Brown-Schrepferman & Co., Denver, Colo. (5a)
- Brown, Thomas C., Company, Inc., Schenectady, N. Y. (L)
- Brown, V. U., Constr. Co., Downs, Kans. (15b)
- Browning, C. L., Jr., San Antonio, Texas (42e)
- Brunetta, Dan, Gallup, N. Mex. (30b)
- Brunn Constr. Co., Kansas City, Mo. (24b)
- Brunson, E. A., Constr. Co., St. Louis, Mo. (24c)
- Bryan, Frank, Inc., McKees Rocks, Pa. (37c)
- Bryan, J. N., & Son, Raleigh, N. C. (32a)
- Bryant Co., Franklin, Ind. (13a)
- Bryant & Detwiler Co., Detroit, Mich. (21a) (21c)
- Bryant, J. A., Vallejo, Calif. (4a)
- Bryant, J. Arlie, Spokane, Wash. (46c)
- Buchanan, P. A., Contr. Co., Birmingham, Ala. (1a)
- Buchanan, T. N., Constr. Co., Seattle, Wash. (48a)
- Buchholz, Walter T., Inc., Milwaukee, Wis. (46b)
- Buck-MacDonald Co., Boston, Mass. (20a)
- Buckler, Geo. H., Co., Portland, Oreg. (36a)
- Buckner, John F., & Son, Cleburne, Texas (42f)
- Buckner, R. C., Jacksonville, Texas (42f)
- Bucks County Constr. Co., Inc., Penndel, Pa. (29a)
- Bucy, A. L., Brownwood, Texas (42f)
- Buesching Bros. Constr. Co., Fort Wayne, Ind. (13b)
- Bufkin & Rockhold, Alexandria, La. (17f)
- Bugbee, Newton A. K., & Co., Trenton, N. J. (29a)
- Buice, A. A., Elsa, Texas (42o)
- Builders Co., The, Chicago, Ill. (12a)
- Builders Constr. Co., Oklahoma City, Okla. (35a)
- Bulley & Andrews, Chicago, Ill. (12a)
- Bullock, J. D., Woodward, Okla. (35b)
- Bumgarner's Constr. Co., Conover, N. C. (32a)
- Bumiller & Meyersieck, St. Louis, Mo. (24c)
- Bunce, H. E., Waverly, N. Y. (31d)
- Bunger, Harry, & Son, Cromwell, Ind. (13b)
- Buquet & LeBlanc, Baton Rouge, La. (17d)
- Burch Constr. Co., Madison, Wis. (12c) (14a)
- Burch, R. B., Inc., Cedar Rapids, Iowa (14a)
- Burden, Geo. H., Co., Inc., Little Rock, Ark. (3a)
- Burden, O. R., Constr. Corp., Tulsa, Okla. (42m)
- Burge, Floyd S., Constr. Co., Winston-Salem, N. C. (32a)
- Burgess, A. E., Contr. Co., Birmingham, Ala. (1a)
- Burggraf Constr. Co., Idaho Falls, Idaho (11a)
- Burghart, O. F., Inc., Bridgeport, Conn. (6a)
- Burk Constr. Co., Springfield, Mo. (24b)
- Burke, J. P., Gadsden, Ala. (1a)
- Burke, Jas. J., & Co., Salt Lake City, Utah (43a)
- Burke, O. W., Co., Detroit, Mich. (21a)
- Burke & Reynolds Constr. Co., Wilmington, Calif. (4d)
- Burleson Constr. Co., Johnson City, Tenn. (41c)
- Burman, John, & Sons, Eureka, Calif. (4b)
- Burn, P. R., Las Cruces, N. Mex. (30a)
- Burner, J. R., Oblong, Ill. (12c)
- Burnett Constr. Co., Coalinga, Calif. (4b)
- Burnett Constr. Co., Durango, Colo. (5b)
- Burnett Constr. Co., Corpus Christi, Texas (42i)
- Burns, A. W., Constr. Co., The, Columbus, Ohio (34d)
- Burns-Brandes Constr. Co., Tulsa, Okla. (35a)
- Burns, J. P., Dumont, N. J. (29a)
- Burns, Tom, & Co., Inc., Portland, Oreg. (36b)
- Burrell Constr. & Supply Co., New Kensington, Pa. (37c)
- Burrell, Thos. L., Inc., Indianapolis, Ind. (13b)
- Burrows & Milone, Tacoma, Wash. (46d)
- Burt & Binford, Hutchinson, Kans. (15b)
- Burton, A. B., Co., Inc., Lynchburg, Va. (32a)
- Burton, Chas. A., Inc., Cleveland, Ohio (34c)
- Burton & Glithero, Houston, Texas (42d)
- Burton-Miller Constr. Co., Inc., Ardmore, Okla. (35a)

(Numerals after names indicate the Chapter in which member belongs—See Key to Listing of A. G. C. Units—page 217). N—National Member (page 315). L—Local Member.

- Busboom & Rau, Salina, Kans.; Dallas, Texas, & Spokane, Wash. (15a) (46c) (42a)
- Bush, E. B., Constr. Co., Oklahoma City, Okla. (35a)
- Bushman Constr. Co., St. Joseph, Mo. (24b) (26b)
- Busse, Henry, Pittsburgh, Pa. (37b)
- Butcher, Earl L., Fairbanks, Alaska (50a)
- Butcher & Sweeney, Inc., Fort Worth, Texas (42c)
- Butler & Cobbs, Montgomery, Ala. (1a)
- Butler, Gerald C., Shreveport, La. (17b)
- Butler, H. L., & Son, Dallas, Texas (42f)
- Butler, J. Samuel, New Orleans, La. (17a)
- Butler, M. P., Seattle, Wash. (46a)
- Butler & Oenbrink, Palm Beach, Fla. (9e)
- Butler, R. B., Inc., Bryan, Texas (42f)
- Butte Creek Rock Co., Chico, Calif. (4b)
- Butterfield, C. R., Co., San Pedro, Calif. (4d)
- Butterfield, L. B., San Diego, Calif. (4c)
- Buttress & McClellan, Inc., Los Angeles, Calif. (4d)
- Buzzi, Felix, & Son, Torrington, Conn. (6a)
- Byck-Worrell Constr. Co., Inc., Savannah, Ga. (10a)
- Byers, J. B., Kilgore, Texas (42n)
- Byrd & Bruns Bridge Co., New Orleans, La. (17a)
- Byrne Organization, Inc., Washington, D. C., (N)
- Byrne, Thos. S., Inc., Fort Worth, Texas (42c)
- Byrnes-Conway Co., Cincinnati, Ohio (34b)
- Byrum Constr. Co., The, Wheeling, W. Va. (47a)
- C**
- C-B Constr. Co., Baton Rouge, La. (17g)
- C. & E. Constr. Co., Inc., Yakima, Wash. (46c) (46a)
- C & H Constr. Co., Salina, Kans. (15b)
- C-L Electric Co., Pocatello, Idaho (11a)
- C & T Constr. Co., Collingswood, N. J. (29a)
- Cable Guide Rail Constr. Co., Depew, N. Y. (31d)
- Cadenhead, Thos. H., & Sons, Fort Worth, Texas (42c)
- Cadillac Asphalt Paving Co., Detroit, Mich. (21c)
- Cady, Wm. J., & Co., Amsterdam, N. Y. (31d)
- Cafardi, A. R., Pittsburgh, Pa. (37c)
- Cage Bros., San Antonio, Texas (42f)
- Cagle, Harry E., Houston, Texas (42f)
- Cahill Bros., Inc., San Francisco, Calif. (4a)
- Cahill-Mooney Constr. Co., Butte & Billings, Mont. (25a) (25b)
- Cahoon, W. R., Pocatello, Idaho (11a)
- Cain & Cain, Fort Worth, Texas (42c)
- Calaway, C. P., Toledo, Ohio (34d)
- Caldwell & McCann, Baton Rouge, La. (17d)
- California Steel & Constr. Co., Los Angeles, Calif. (4d)
- California Steel Prods. Co., Ind. Constr. & Maint. Div., Richmond, Calif. (4b)
- Callahan Constr. Co., Daly City, Calif. (4b)
- Callahan Constr. Co., South Pasadena, Calif. (4d)
- Calumet Paving Co., Zionsville, Ind. (13a)
- Cameron, Joyce & Co., Keokuk, Iowa (12c) (14a) (24b)
- Camillo Bros. Dump Truck Co., Glendale, Calif. (4d)
- Campanella, Edw. P., Hammon, N. J. (29a)
- Campbell, Clinton, Contrs., Inc., Phoenix, Ariz. (2a)
- Campbell Constr. Co., Jackson, Miss. (23b)
- Campbell Constr. Co., Sacramento, Calif. (4a)
- Campbell Constr. Co., Inc., Shreveport, La. (17e)
- Campbell Constr. & Equip. Co., San Francisco, Calif. (4b)
- Campbell Constr. & Equip. Co., Portland, Oreg. (36a)
- Campbell, Harry, Fort Worth, Texas (42f)
- Campbell, Harry T., Sons' Corp., Towson, Md. (19b)
- Campbell & Kay, Tyler, Texas (42d) (42f)
- Campion Co., Ogden, Utah (43a)
- Campion, F. K., Philadelphia, Pa. (37d)
- Campsey, R. N., Constr. Co., Denver, Colo. (5b)
- Canfield, Badgett & Scarbrough Co., Memphis, Tenn. (41c)
- Canion, J. R., Constr. Co., Austin, Texas (42f)
- Cannon Constr. Co., Stockton, Calif. (4b)
- Cannon Constr. Co., Inc., Indianapolis, Ind. (13b)
- Cantera Constr. Co., Wilmington, Del. (7a)
- Cantrell & McMillan, Houston, Texas (42d)
- Canuso, Francis A., & Son, Philadelphia, Pa. (29a)
- Capital Co., San Francisco, Calif. (4b)
- Capital Constr. Co., Atlanta, Ga. (10a)
- Capps, Gordon L., Stockton, Calif. (4b)
- Carbon Bros., Spokane, Wash. (46c)
- Carbone, R. P., Constr. Co., Cleveland, Ohio (34c)
- Cardwell, Leo, Constr. Co., Santa Cruz, Calif. (4b)
- Carey & Newton Co., Brownwood, Texas (42j)
- Carlen Constr. Co., San Francisco, Calif. (4a)
- Carlson, Arved, Missoula, Mont. (25b)
- Carlson Constr. Co., Essex, Iowa (14a)
- Carlson Constr. Co., Omaha, Nebr. (14a)
- Carlson, Fred, Co., Inc., Decorah, Iowa (14a)
- Carlson, Geo., Co., Milwaukee, Wis. (48a)
- Carlson, Henry, Company, Sioux Falls, S. Dak. (1)
- Carlson & Torell Co., The, New Britain, Conn. (6a)
- Carmichael Constr. Co., The, Akron, Ohio (34a)
- Carney Constr. Co., Phoenix, Ariz. (2a)
- Carolina Contr. Co., Inc., Columbia, S. C. (32a)
- Carothers & Dahlstrom, Fremont, Mich. (21c)
- Carpenter Bros., Dallas, Texas (42a)
- Carpenter Constr. Co., Houston, Texas (42d)
- Carpenter Constr. Co., Norfolk, Va. (45a)
- Carpenter, Hugh J., & Sons, Inc., Lansing, Mich. (21b)
- Carpenter, R. E., & Co., Rutherfordton, N. C. (32a)
- Carper & Perryclear, Christiansburg, Va. (32a)
- Carrieco & Gautier, San Francisco, Calif. (4a)
- Carroll, A. C., Modesto, Calif. (4a)
- Carroll Constr. Co., Chicago, Ill. (12a)
- Carroll & Foster, San Diego, Calif. (4c)
- Carrothers Constr. Co., Inc., Paola, Kans. (15b)
- Carruth Constr. Co., Baton Rouge, La. (17e)
- Carruth, Geo. M., & Son, Evanston, Wyo. (49a)
- Carson Constr. Co., Inc., Helena, Mont. (25b)
- Carstensen, Inc., Johnstown, Pa. (37a)
- Carte Bros. Constr. Co., Inc., West Plains, Mo. (24b)
- Carter, A. G., Jr., Whiteville, N. C. (32a)
- Carter, C. E., Akron, Ohio (34a)
- Carter, Chas., Baton Rouge, La. (17d)
- Carter, Geo. W., Co., Los Angeles, Calif. (4d)
- Carter-Hassell Constr. Co., Norfolk, Va. (45a)
- Carter-Miot Constr. Co., Columbia, S. C. (32a)
- Carter, W. B., Constr. Co., Wichita, Kans. (15b)
- Carty, Herman, Little Rock, Ark. (3a)
- Cascade Constr. Co., Portland, Oreg. (36a)
- Cascade Contrs., Inc., Seattle, Wash. (46a)
- Case-Connolly Co., Compton, Calif. (4d)
- Case, V. D., Co., Wilmington, Calif. (4d)
- Casey & Case Foundation Co., Maywood & Berkeley, Calif. (4a) (4d)
- Casey, John F., Co., Pittsburgh, Pa. (37c)
- Caskey, G. M., & Son, Athens, Ga. (10a)
- Casper-Lyons Co., Grand Rapids, Minn. (22a)
- Cassel Bros., Kingsport, Tenn. (41e)
- Casson Constr. Co., Topeka, Kans. (15a)
- Castle, E. B., & Son, Marion, Iowa (14b)
- Castle, M. F., Spokane, Wash. (46c)
- Castro, Earl W., Martinez, Calif. (4b)
- Cauldwell-Wingate Company, New York, N. Y. (N)
- Cawdrey & Vemo, Seattle, Wash. (46b)
- Caye Constr. Co., Inc., Brooklyn, N. Y. (31c)
- Cayuga Foundation Corp., New York, N. Y. (29a)
- Ceccotti & Son, San Francisco, Calif. (4b)
- Cecil, J. K., & Son, Lexington, N. C. (32a)
- Cecil's, Inc., Spartanburg, S. C. (32a)
- Cederstrand, August, Co., Minneapolis, Minn. (22a)
- Ceis, Philip L., Seattle, Wash. (46b)
- Cement Asphalt Prods. Co., Winfield, Kans. (15b)
- Central California Constr. Co., San Francisco, Calif. (4a)
- Central Constr. Co., Indianola, Iowa (14a)
- Central Constr. Co., Sioux Falls, S. Dak. (40a)
- Central Constr. Co., Spokane, Wash. (46c)
- Central Contr. Co., Oshkosh, Wis. (48b)
- Central Engr. Co., Davenport, Iowa (12c) (14a)
- Central Engr. & Constr. Co., Pawtucket, R. I. (38a)
- Central Heating Co., The, Eugene, Oreg. (36a)
- Central Sand & Gravel Co., Pasco, Wash. (46a)
- Central State Constr. Co., Inc., San Francisco, Calif. (4b)
- Century Constr. Co., Houston, Texas (42j)
- Chamberlain & Strain, San Antonio, Texas (42e)
- Chambers Constr. Co., Houston, Texas (42d)
- Chambers Steel Co., San Diego, Calif. (4c)
- Chambers-Tarbell, Kansas City, Mo. (24a)
- Champaign Asphalt Co., Champaign, Ill. (12c)

A.G.C. DIRECTORY

- Champion, Inc., Constr. Div., Iron Mountain, Mich. (21d)
- Chandler Bros., Inc., Virgilina, Va. (32a)
- Chandler Constr. Co., Cameron, Texas (42k)
- Chapel Constr. Co., The, New Haven, Conn. (6a)
- Chapman Constr. Co., Dothan, Ala. (1a)
- Chapman Constr. Co., Lawton, Okla. (35a)
- Chapman, J. F., & Son, Inc., Hillside, N. J. (29a)
- Chapman, Oscar T., Inc., Hutchins, Texas (42L)
- Chappell, W. M., Co., Anacostia, D. C. (8a)
- Charleston Concrete Floor Co., Charleston, W. Va. (47a)
- Chase Constr. Co., Rapid City, S. Dak. (40a)
- Chaudoir, A. B., & Sons, Alexandria, La. (17f)
- Chavis Constr. Co., Pensacola, Fla. (9d)
- Cheek, Geo. H., Constr. Co., Inc., Frankfort, Ky. (16a)
- Cheney, F. G., Williamston, Mich. (21c)
- Cherf Bros. Constr., Ephrata, Wash. (46c)
- Cherokee, Inc., Columbia, S. C. (32a)
- Chevreaux, Joe, Auburn, Calif. (4b)
- Child, Ralph E., Springville, Utah (43a)
- Childs Constr. Co., Fort Worth, Texas (42c)
- Chilli, Geo. H., Homestead, Pa. (37b)
- Chisholm & Eiford, Bellingham, Wash. (46b)
- Chism & Miller, Springfield, Ill. (12c)
- Chittenden & Chittenden, Auburn, Calif. (4b)
- Choate, Jack, Harlingen, Texas (42o)
- Choate, Milo J., & Co., Tyler, Texas (42n)
- Choun Constr. Co., Inc., Denver, Colo. (5b)
- Christ, Carl W., Sidney, Nebr. (26a)
- Christensen Bros., Sioux City, Iowa (14a)
- Christensen Constr. Co., Sibley, Iowa (14b)
- Christensen Constr. Co., Salt Lake City, Utah (43a)
- Christensen & Lyons, Oakland, Calif. (4a)
- Christensen Sand & Gravel Co., Fremont, Nebr. (26b)
- Christian & Bell Co., Atlanta, Ga. (10a)
- Christian, J. E., Co., The, Cleveland, Ohio (34c)
- Christiana, Vernon, Jr., Utica, N. Y. (31d)
- Christiansen Bros., Salt Lake City, Utah (43a)
- Christle, Richard H., Wasta, S. Dak. (40a)
- Christman Co., The, Lansing, Mich. (21b)
- Christman, H. G., Constr. Co., Inc., South Bend, Ind. (13b)
- Christopher Constr. Co., Columbus, Ohio (34d)
- Christy & Baskett, San Antonio, Texas (42e)
- Chytraus Bros. Co., Salt Lake City, Utah (43a)
- Cianci Constr. Co., West Hartford, Conn. (6a)
- Circle Constr. Corp., White Plains, N. Y. (31d)
- City Constr. Co., Utica, N. Y. (31d)
- City Lumber Co., Inc., Alexandria, La. (17f)
- Cladny, M., Constr. Co., Inc., Washington, D. C. (8a)
- Clair-Mel Bldrs., Inc., Tampa, Fla. (9c)
- Clancy Constr. Co., Raleigh, N. C. (32a)
- Clardy, J. B., Constr. Co., Fort Worth, Texas (42f)
- Clark Bros. Co., Peoria, Ill. (12c)
- Clark Bros. Constr. Co., Hinton, Iowa (14a)
- Clark Bros. Constr. Co., Leavenworth, Kans. (15b)
- Clark Constr. Co., Greenville, N. C. (32a)
- Clark Constr. Co., Inc., Grand Ledge, Mich. (21b)
- Clark, Don, Topeka, Kans. (15a)
- Clark & Farrell, Brinkley, Ark. (23a)
- Clark & Fay, Memphis, Tenn. (41c)
- Clark, L. C., Visalia, Calif. (4b)
- Clark, Richard F., Co., Cambridge, Mass. (20b)
- Clark, Roy C., East Chicago, Ind. (13b)
- Clark & Runquist Constr. Co., Savannah, Mo. (24b)
- Clark, W. G., Co., Seattle, Wash. (46b)
- Clarkson Constr. Co., The, Kansas City, Mo. (15b) (24b)
- Clarson, R. E., Inc., St. Petersburg, Fla. (9c)
- Claussen, John, & Sons, Grand Island, Nebr. (26a)
- Claussen-Lawrence Constr. Co., Augusta, Ga. (32a)
- Claussen-Olson-Benner, Inc., Holdrege, Nebr. (26b)
- Clayton, A. L., Co., Jacksonville, Fla. (9a)
- Clearkin, Jas. J., Philadelphia, Pa. (37d)
- Cleary Bros. Constr. Co., West Palm Beach, Fla. (9e)
- Cleaver, David, Co., Akron, Ohio (34a)
- Cleckley, J. F., & Co., Orangeburg, S. C. (32a)
- Cleckley & McGee, Inc., Orangeburg, S. C. (32a)
- Clements & Co., Hayward, Calif. (4b)
- Clemmer Constr. Co., Inc., Akron, Ohio (34a)
- Cleveland Constr. Co., The, Cleveland, Ohio (34c)
- Clevenger, Howard, Co., Port Angeles, Wash. (46a)
- Cleverdon Co., Inc., Lafayette, Calif. (4b)
- Click Constr. Co., Elizabethton, Tenn. (41e)
- Clifford, R. G., Berkeley, Calif. (4b)
- Clifton & Applegate Co., Spokane, Wash. (25a) (46c)
- Cline, F. D., Constr. Co., Raleigh, N. C. (32a)
- Clinton Bridge Corp., Clinton, Iowa (14a)
- Clinton Constr. Co., San Francisco, Calif. (4a)
- Clinton & Corbin, Waco, Texas (42f)
- Clinton Engr. Co., Clinton, Iowa (14a) (14b)
- Cloer, E. E., Fort Worth, Texas (42d)
- Close Bldg. Supply, Hayward, Calif. (4b)
- Cloud, Dudley R., & Son, San Antonio, Texas (42f)
- Clough & King Constr. Co., Albuquerque, N. Mex. (30b)
- Clough, L. M., Co., Oakland, Calif. (4b)
- Clyde, W. W., & Co., Springville, Utah (43a)
- Coast Constr. & Excavating Co., Junction City, Oreg. (36a)
- Coast Constrs., Seattle, Wash. (46b)
- Coast, H. M., Inc., Wheeling, W. Va. (47a)
- Coastal Properties Corp., West Palm Beach, Fla. (9e)
- Coates Constr. Co., Florence, S. C. (32a)
- Coath & Goss, Inc., Chicago, Ill. (12a)
- Coble, H. L., Constr. Co., Inc., Greensboro, N. C. (32a)
- Coble, Jesse M., Greensboro, N. C. (32a)
- Cockrill, Mark, Contr. Co., Phoenix, Ariz. (2a)
- Codell Constr. Co., Inc., Winchester, Ky. (16a)
- Codell, M. T., & Co., Inc., Winchester, Ky. (16a)
- Coe, J. L., Constr. Co., Charlotte, N. C. (32a)
- Coffeen, A. R., Co., Decorah, Iowa (14a) (14b)
- Coffey, Jas., Topeka, Kans. (15b)
- Coggins Constr. Co., Inc., Raleigh, N. C. (32a)
- Cogswell Constr. Co., The, Baltimore, Md. (19a)
- Cohen, Chas., Marshall, Texas (42f)
- Cohen, S. J., Blytheville, Ark. (23a)
- Cohenour Constr. Co., Ardmore, Okla. (35b) (14a) (14b)
- Cohron, H. V., Mobile, Ala. (1a)
- Cold Spring Constr. Co., Akron, N. Y. (31d)
- Cole, Ben, & Son, Ames, Iowa (14a) (14b)
- Cole & Crumpacker, West Durham, N. C. (32a)
- Coleman Constr. Co., Inc., Providence, R. I. (38a)
- Coleman, L. S., Co., Inc., St. Albans, W. Va. (47a)
- Colglazier & Hoff, Inc., San Antonio, Texas (42f)
- Collins, A. J., Floral City, Fla. (10a)
- Collins Bros., Mechanicville, N. Y. (31d)
- Collins-Bruley Constr. Co., Decatur, Ill. (12c)
- Collins Constr. Co., Kansas City, Kans. (24a)
- Collins Constr. Co., Leavenworth, Kans. (15b)
- Collins Constr. Co., Austin, Texas (42f)
- Collins, H. V., Providence, R. I. (38a)
- Collins & Hobbs, Chattanooga, Tenn. (41a)
- Collins, J. H., & Co., Walla Walla, Wash. (46c)
- Collins, O. W., Port Arthur, Texas (42h)
- Collins, Wm. L., Hornell, N. Y. (31d)
- Collins, Wm., & Sons, Inc., Fargo, N. Dak. (22a)
- Colonial Constr. Co., Spokane, Wash. (46c)
- Colorado Constrs., Inc., Denver, Colo. (5b)
- Coltrane-Graham Constr. Co., High Point, N. C. (32a)
- Coluccio, Thos. F., & Sons, Rome, N. Y. (31d)
- Columbia Asphalt Paving Co., Yakima, Wash. (46a)
- Colvin, Leslie, Indianapolis, Ind. (13b)
- Comb, Fred R., Co., Minneapolis, Minn. (22a)
- Commercial Bldrs., Inc., Moscow, Idaho (11a)
- Complete General Constr. Co., Columbus, Ohio (34d)
- Compton, J. C., Co., McMinnville, Oreg. (36a)
- Comstock, Glenn A., Bay City, Mich. (21c)
- Comte Constr. Co., Toledo, Ohio (34e)
- Concrete Bldrs., Inc., Atlanta, Ga. (10a)
- Concrete Conduit Co., Colton, Calif. (4a) (4d)
- Concrete Constr. Co., Atlanta, Ga. (10a)
- Concrete Materials & Constr. Co., Cedar Rapids, Iowa (14a) (15b) (24b) (26h)
- Condick Co., Berkeley, Calif. (4a)

(Numerals after names indicate the Chapter in which member belongs—See Key to Listing of A. G. C. Units—page 217). N—National Member (page 315). L—Local Member.

- Condon-Cunningham Co., Omaha, Nebr. (N)
(5b) (14a) (24b) (26b)
- Conduit Constr. Co., Oakland, Calif. (4b)
- Conduit Constr. Co., Inc., St. Louis, Mo. (12d)
(24b) (24c)
- Cone Bros. Constr. Co., Tampa, Fla. (9c)
- Congaree Constr. Co., Columbia, S. C. (32a)
- Conley Constr. Co., Mobile, Ala. (1a)
- Conley, J. N. & M. J., Portland, Oreg. (36a)
- Conlon Constr. Co., Dubuque, Iowa (14b)
- Conner, Frank H., Co., Charlotte, N. C.
(32a)
- Conner, Harvey E., Redwood City, Calif.
(4b)
- Conner, J. L., Jr., Eureka, Calif. (4b)
- Connor, J. Robt., High Point, N. C. (32a)
- Conquest, Moncure, & Dunn, Inc., Richmond,
Va. (45a)
- Consolidated Constr. Co., Inc., Collingswood,
N. J. (29a)
- Consolidated Contrs., Memphis, Tenn. (41c)
- Consolidated Engr. Co., Wheeling, W. Va.
(47a)
- Consolidated Engr. Co., Inc., Baltimore, Md.
(8a) (19a)
- Consolidated Western Steel Corp., Constr.
Div., Houston, Texas (42d)
- Constant Constr. Co., Inc., Lawrence, Kans.
(15a) (15b)
- Construction Aggregates Corp., New York,
N. Y. (29a)
- Construction Engrs. & Contrs., Tacoma,
Wash. (46d)
- Construction Materials Co., Tucson, Ariz.
(2a)
- Construction Service Co., Bound Brook, N. J.
(29a)
- Construction Service, Inc., Charleston, W. Va.
(47a)
- Conti & Donahue, Lynn, Mass. (20b)
- Continental Constr. Co., Chicago, Ill. (12a)
- Contracting Engrs. Co., The, Los Angeles,
Calif. (4d)
- Conyes Constr. Corp., San Pablo, Calif.
(42m)
- Coogan, Thos. P., Co., Hialeah, Fla. (3a)
- Cook & Cone, Wichita, Kans. (15b)
- Cook Constr. Co., Jackson, Miss. (23a)
- Cook, Geo. F., Constr. Co., Minneapolis,
Minn. (22a) (2a)
- Cook, Ray, Constr. Co., Ames, Iowa (14a)
- Cook, S. J., & Son, Los Angeles, Calif. (4d)
- Cooke Constr. Co., The, Detroit, Mich. (21c)
- Cooley, John, Co., Detroit, Mich. (21a)
- Coomer, R. M., Constr. Co., Sioux City, Iowa
(14b)
- Coon, B. G., Constr. Co., Luzerne, Pa. (37a)
- Cooney, Don L., Inc., Seattle & Tacoma,
Wash. (46a) (46d)
- Coons, E. W., Co., Inc., Hibbing, Minn. (22a)
- Cooper Constr. Co., Omaha, Nebr. (26a)
- Cooper, Frank N., Co., Detroit, Mich. (21a)
- Cooper, S. E., Wilmington, N. C. (32a)
- Cooper, W. M., Santa Fe, N. Mex. (30b)
- Cooper & Woodruff, Dallas, Texas (42f)
- Coos Bay Dredg. Co., Inc., Coos Bay, Oreg.
(36a)
- Copeland Constr. Co., Houston, Texas (42d)
- Corbett, Frank D., Sacramento, Calif. (4b)
- Corbett & Smith, Sacramento, Calif. (4b)
- Corbissello, N. R., Binghamton, N. Y. (31d)
- Corely, J. S., Constr. Co., Oklahoma City,
Okla. (35a)
- Corn Constr. Co., Grand Junction, Colo. (5b)
- Cornell, J. S., & Son, Inc., Philadelphia, Pa.
(37d)
- Cornell-Young Co., Macon, Ga. (10a)
- Corning, Edw., Co., New York City (31c)
- Cornish Constr. Co., Greensburg, Pa. (37c)
- Corol Constr. Corp., Pittsburgh, Pa. (37c)
- Corr, Francis J., Inc., Lansing, Mich. (21b)
- Corr, John L., Jr., New Orleans, La. (17a)
- Corson & Gruman Company, Washington,
D. C. (L)
- Corum & Edwards, Madisonville, Ky. (16a)
- Cory & Longworth, Inc., San Diego, Calif.
(4c)
- Costanza Constr. Co., The, Baltimore, Md.
(19a)
- Costigan, J. C., Elkader, Iowa (14a)
- Coston, W. L., & Sons, Birmingham, Ala. (1a)
- Cottage Bldrs., Inc., Shreveport, La. (17b)
- Cottle, L. W., Clovis, N. Mex. (30b)
- Couch Constr. Co., Dothan, Ala. (1a)
- Coulter & Co., Columbia, S. C. (32a)
- Council Bluffs Constr. Co., Council Bluffs,
Iowa (14a)
- County Asphalt, Inc., Tarrytown, N. Y. (31d)
- Coupe, A. L., Constr. Co., Louisville, Ky.
(16b)
- Couper, Wm. M., Co., Ann Arbor, Mich.
(21c)
- Couse, Walter L., & Co., Detroit, Mich. (21a)
(21c)
- Cousins, Geo. L., Constr. Co., St. Louis, Mo.
(24c)
- Covina Constr. Co., Covina, Calif. (4d)
- Cowan, C. J., Constr. Co., Topeka, Kans.
(35a)
- Cowan, H. J., Co., Algona, Iowa (14b)
- Cowdin Bros., Dallas, Texas (42a)
- Cowen Constr. Co., Shawnee, Okla. (35a)
- Cowper, John W., Co., Inc., The, Buffalo,
N. Y. (N) (31a)
- Cox Bros. Constr. Co., Stanton, Calif. (4d)
- Cox-Dodd Constr. Co., Sault Ste. Marie,
Mich. (21d)
- Cox, Fred M., Jacksonville, Fla. (9a)
- Cox, L. P., Co., Sanford, N. C. (32a)
- Cox, P. T., Constr. Co., Inc., New York,
N. Y. (29a)
- Crabtree-Maule Corp., Richmond, Ind. (13b)
- Craft Constr. Co., Pittsburgh, Pa. (37c)
- Craftsmen Constr. Co., Inc., The, Santa Fe,
N. Mex. (30b)
- Craig, Jay W., Co., Minneapolis, Minn. (22a)
(40a)
- Craig, John W., Charlotte, N. C. (32a)
- Craig-Roberson Constr. Co., Columbia, S. C.
(32a)
- Crain & Denbo, Inc., Durham, N. C. (32a)
- Cramer, E. F., Indianapolis, Ind. (13b)
- Cramer-Vollmerhausen Co., Inc., Washington,
D. C. & Baltimore, Md. (8a) (19a)
- Crandall Engr. Co., Boston, Mass. (20a)
- Cranford, Frederick L., Inc., Brooklyn, N. Y.
(N)
- Crawford, J. W., Co., Minneapolis, Minn.
(22a)
- Crawford, W. S., Co., Dallas, Texas (42f)
- Crawford, Wm., Inc., New York City (31c)
- Crawley, David, Cincinnati, Ohio (34b)
- Creager Bros. Constr. Co., Fort Pierre,
S. Dak. (40a)
- Creed, Geo. A., & Son, Columbia, S. C.
(32a)
- Creson, R. F., & Co., Memphis, Tenn. (41c)
- Crick, Jas., & Sons, Spokane, Wash. (46c)
- Crocco & Hanson, Vallejo, Calif. (4b)
- Crocker & Ellett, Inc., Denver, Colo. (5b)
- Crockett, Leslie F., Constr. Co., Austin,
Texas (42k)
- Croissant, F. J., Antwerp, N. Y. (31d)
- Cromer & Sullivan Constr. Co., Anderson,
S. C. (32a)
- Cropp, E. H., Constr. Co., Mobile, Ala. (1a)
- Crosby Constr. Co., Inc., Union, S. C. (32a)
- Crosland Constr. Co., Columbia, S. C. (32a)
- Cross, E. J., Company, Worcester, Mass. (L)
- Cross, Jas. P., New Iberia, La. (23a)
- Crossin Constr. Co., Houston, Texas (42d)
- Crossman-McCoy, Inc., Sodus, Mich. (21c)
- Crouch, M. G., Lumber Co., Hickory, N. C.
(32a)
- Crouch, Robt. C., & Co., Memphis, Tenn.
(41c)
- Crow, L. A. & R. S., El Monte, Calif. (4d)
- Crow, Wm. L., Constr. Co., New York City
(31c)
- Crowder Constr. Co., Charlotte, N. C. (32a)
- Crowell, Wm. C., Co., Pasadena, Calif. (4d)
- Crumley, Jones & Crumley Co., The, Deer
Park, Ohio (34b)
- Crumpecker, Wm., & Sons, Morehouse, Mo.
(23a)
- Cullen, J. P., & Son, Janesville, Wis. (48b)
- Cullum, W. G., & Co., Dallas, Texas (42j)
- Culwell, Haskell, Constr. Co., Oklahoma City,
Okla. (35a)
- Cumberland Constr. Co., The, Cumberland,
Md. (19b)
- Cummings, H. P., Constr. Co., Ware, Mass.
(L)
- Cummings, L. M., Austin, Texas (42k)
- Cummins, F. I., Constr. Co., Sioux Falls,
S. Dak. (40a)
- Cummins, H. E., & Sons, Enid, Okla. (35a)
- Cummins, J. F., Burbank, Calif. (4d)
- Cump, Earl L., Chambersburg, Pa. (37a)
- Cunliff, Wm. H. & Nelson, Co., St. Louis,
Mo. (24c)
- Cunningham, A. J., & Sons, Trenton, N. J.
(20a)
- Cunningham Bros., Inc., Beloit, Wis. (48b)
- Cunningham, Chas. I., Co., Oakdale, Calif.
(4b)
- Cunningham-Reis Co., Des Moines, Iowa
(14a)
- Cunningham-Waters Constr. Co., Inc., Greer,
S. C. (32a)
- Cuppels, F. J., Kingston, Pa. (37a)
- Curlett Constr. Co., Long Beach, Calif. (4d)
- Curphy, Bill, Co., Des Moines, Iowa (14a)
- Curran, Kenneth E., Inc., Littleton, N. H.
(28a)
- Currie, Thos. E., Co., The, Detroit, Mich.
(21a) (21c)
- Curry, I. C., San Diego, Calif. (4c)
- Curtis-Pethick Co., The, Wilkes-Barre, Pa.
(37a)
- Cutshall, J. M., & Son, Brazil, Ind. (13b)

D

- D & H Constr. Co., Dallas, Texas (42f)
- D-H Paving Co., Vancouver, Wash. (36a)
- Dahl-Stedman Co., Chicago, Ill. (12a)
- Dahlberg, S. A., Seattle, Wash. (46a)
- Dahlgren & Brooks, Oklahoma City, Okla.
(35b)

A.G.C. DIRECTORY

- Dahlman Constr. Co., Milwaukee, Wis. (48a)
 Dahms, O. R., Constr. Co., Sacramento, Calif. (4b)
 Dailey, H. A., Inc., St. Louis, Mo. (24c)
 Dailey & Holifield, San Antonio, Texas (42f)
 Dailey, L. W., Constr. Co., Fort Wayne, Ind. (13a)
 Dale Engr. Co., Utica, N. Y. (31d)
 Dale, W. E., Constr. Co., Morganton, N. C. (32a)
 D'Alessio Constr. Co., Akron, Ohio (34a)
 Daley Constr.-Acme Materials Co., Phoenix, Ariz. (2a)
 Daley Corp., San Diego, Calif. (4c)
 Daley, Morris, Burlingame, Calif. (4a)
 Dalton Constr. Co., Joplin, Mo. (15a)
 Dalton, E. L., & Co., Ltd., Dallas, Texas (42j)
 Dan Bar Contr. Co., Inc., Syracuse, N. Y. (31d)
 Dangel's, David, Sons, Wilmington, Del. (7a)
 Daniel Constr. Co., Inc., Birmingham, Ala. & Greenville, S. C. (1a) (32a)
 Daniel, John W., & Co., Inc., Danville, Va. (45a)
 Daniel Lumber Co., La Grange, Ga. (10a)
 Daniels, E. L., Arlington, Va. (8a)
 Daniels, O. B., & Son, Seattle, Wash. (46b)
 Danis, B. G., Co., Dayton, Ohio (34b)
 Dapont, A., Constr. Co., Inc., Waterbury, Conn. (6a)
 Darby, E. B., Co., Pharr, Texas (42f)
 Darby, Mitchell, Constr. Co., McAllen, Texas (42j)
 Darin & Armstrong, Inc., Detroit, Mich. (21a) (21c)
 Darling, Herbert F., Williamsville, N. Y. (31a)
 Darlington Constr. Co., Inc., Darlington, S. C. (32a)
 Darnier, Phil, Ottumwa, Iowa (14b)
 da Roza & Ribal, Inc., Monterey, Calif. (4b)
 Darrrough, W. H., & Sons, Yuba City, Calif. (4b)
 Dasta, Sam, & Son Constr. Co., Kansas City, Mo. (24a)
 Date, H. G., Cordova, Alaska (50a)
 Datema, Geo., & Sons, Grand Rapids, Mich. (21b)
 Dauge, F. R., Birmingham, Ala. (1a)
 Daugherty & Waters, Knoxville, Tenn. (41b)
 Daum-Donaldson Constr. Co., Phoenix, Ariz. (2a)
 Daum, R. J., Constr. Co., Inglewood, Calif. & Albuquerque, N. Mex. (4d) (30b)
 Davenport, A. W., & Assos., Inc., Richmond, Va. (45a)
 Davey, Ben O., Las Vegas, Nev. (27b)
 Davey & Mosen, Mason City, Iowa (14b)
 David, E. F., House Moving Co., St. Louis, Mo. (24c)
 Davidson, C. F., Co., Tacoma, Wash. (46d)
 Davidson, Forest R., Constr. Co., Norton, Kans. (15a)
 Davidson, Joe, Terrell, Texas (42f)
 Davidson, L. A., Lansing, Mich. (21c)
 Davidson, M. J., St. Louis, Mo. (24b)
 Davies, John R., & Son, Los Angeles, Calif. (4d)
 Davies, Keusder & Brown, Los Angeles, Calif. (4d)
 Davis, Ben H., Salt Lake City, Utah (43a)
 Davis, C. C., Constr. Co., New Cumberland, Pa. (37a)
 Davis Constr. Co., Hicksville, N. Y. (31d)
 Davis Constr. Co., Corpus Christi, Texas (42j)
 Davis Constr. Co., Inc., Boonville, Mo. (24b)
 Davis Constr. Co., The, Baltimore, Md. (19a)
 Davis, E. L., Co., Beaufort, N. C. (32a)
 Davis, F. B., Sons, Philadelphia, Pa. (37d)
 Davis, O. B., Constr. Co., Chattanooga, Tenn. (41a)
 Davis & Platt, Inc., Washington, D. C. (8a)
 Davis, R. H., Stamps, Ark. (3a)
 Davis, T. H., Mobile, Ala. (1a)
 Davis, Wick, Rosengarten Co., Inc., Washington, D. C. (8a)
 Davison Constr. Co., Manchester, N. H. (28a)
 Davison, David W., Manchester, N. H. (28a)
 Dawkins, C. T., Tampa, Fla. (9c)
 Dawson Constr. Co., Bellingham, Wash. (46a)
 Dawson, R. R., Bloomfield, Ky. (16a)
 Day & Zimmermann, Inc., Philadelphia, Pa. & Indian Head, Md. (8a) (37d)
 Deal, H. B., & Co., Inc., St. Louis, Mo. (24c)
 Dean Contr. Co., Minneapolis, Minn. (22a)
 Deane, B. C., & Gunther & Shirley Co., Van Nuys, Calif. (4d)
 DeBolt Constr. Co., Inc., Richmond, Ind. (13a)
 Deer Landscape Co., Neodesha, Kans. (15b)
 DeFelice, L. G., & Son, Inc., North Haven, Conn. (37c)
 Degerstrom, N. A., Spokane, Wash. (46c)
 deGiv-Dunham & O'Neill, Atlanta, Ga. (10a)
 DeGraff, Henry, & Son, Miami, Fla. (9b)
 Dehner, John, Inc., Fort Wayne, Ind. (13a)
 Dehaard & Preston Bldrs., Coral Gables, Fla. (9b)
 de Koning, Henry, Constr. Co., Ann Arbor, Mich. (21b)
 DeLashmutt Bros., Inc., Arlington, Va. (45a)
 DeLia, Elis G., & Co., New Hartford, N. Y. (31d)
 Delk, W. B., High Point, N. C. (32a)
 Dellinger, J. M., Inc., Corpus Christi, Texas (42f)
 DeLong, C. L., Nebraska City, Nebr. (26b)
 Delphia, John, Patterson, Calif. (4b)
 Delta Constr. Co., Rio Vista, Calif. (4b)
 Delta Constr. Co., Hopewell, N. J. (29a)
 DeLuca Constr. Co., Akron, Ohio (34a)
 De Luca & Son, San Francisco, Calif. (4a)
 Dement, Ivan, Amarillo, Texas (42f)
 Dennehy Constr. Co., Oklahoma City, Okla. (35a)
 Denni Corp., Wilmington, Calif. (4d)
 Dennis, G. D., & Sons, Portland, Ore. (36a)
 Dennis, V. R., Constr. Co., San Diego, Calif. (4c)
 Dennison, Karl W., Phoenix, Ariz. (2a)
 Denny, Dale, Constr. Co., Anna, Ill. (12c)
 Dent, Jas. B., Houston, Texas (42d)
 Denton Constr. Co., Detroit, Mich. (21a) (21c)
 Denver Bldrs., Inc., Denver, Colo. (5a)
 Depew Paving Co., Inc., Depew, N. Y. (31d)
 Derby Constr. Co., Inc., Louisville, Ky. (16b)
 DeRuyter Bros., Willmar, Minn. (22a)
 DeSalvo Constr. Co., Cincinnati, Ohio (34b)
 Desert Development Co., Las Vegas, Nev. (27b)
 Des Moines Asphalt Paving Co., Des Moines, Iowa (14a)
 Des Moines Steel Co., Des Moines, Iowa (14a)
 Dethlefs & Hannon, Anniston, Ala. (1a)
 Detroit Asphalt Paving Co., Detroit, Mich. (21c)
 Detweiler Bros., Inc., Twin Falls, Idaho (11a)
 Dew Constr. Co., Inc., Tyler, Texas (42f)
 DeWitt Co., The, Tulsa, Okla. (35a)
 Diamond Engr. Co., Dallas, Texas (42j)
 Dick Constr. Co., Pittsburgh, Pa. (37b)
 Dickerson & Bowen, Brookhaven, Miss. (17e)
 Dickerson, G. W., San Antonio, Texas (42j)
 Dickerson, Inc., Monroe, N. C. (32a)
 Dickie Constr. Co., St. Louis, Mo. (24c)
 Dickson, Lige, Co., Tacoma, Wash. (46d)
 Dienst, Robt. J., Columbus, Ohio (34d)
 Diesch Constrs., Waterloo, Iowa (14a)
 Diesel Oil Sales Co., Seattle, Wash. (46a)
 Dieseth, John, Co., Fergus Falls, Minn. (22a)
 Dietrich, Clarence, Co., Reno, Nev. (27a)
 Dillard, J. E., & Sons, Bessemer, Ala. (1a)
 Dillard, Wm. B., Sylva, N. C. (32a)
 Dillsworth & Purnea, Helena, Mont. (25a)
 Dilschneider, Ray M., Inc., St. Louis, Mo. (24c)
 Dimeo Constr. Co., Providence, R. I. (38a)
 Dimmitt Constr. Co., Shenandoah, Iowa (14b)
 Dimmitt & Taylor, Monrovia, Calif. (4d)
 Dinardo, Inc., Pittsburgh, Pa. (37c)
 Dinwiddie Constr. Co., Inc., San Francisco, Calif. (4a)
 DiSabatino & Ranieri, Wilmington, Del. (7a)
 Ditmars-Dickmann-Pickens Constr. Co., Little Rock, Ark. & Muskogee, Okla. (35a)
 Diulus Constr. Co., Inc., Pittsburgh, Pa. (37c)
 Dixon Bros. Co., Correctionville, Iowa (14a)
 Dixon Constr. Co., Fayetteville, N. C. (32a)
 Dixon, L. E., Co., San Gabriel, Calif. (4d)
 Dixon, S. M., Warren, Ark. (3a)
 Dobson Bros. Constr. Co., Lincoln, Nebr. (15b) (26b) (14a)
 Dobson & Robinson, Lincoln, Nebr. (26b)
 Dodds & Wedegartner, Inc., San Benito, Texas (42f)
 Dodge Constr., Inc., Fallon, Nev. (27a)
 Doerfler Constr. Co., Oklahoma City, Okla. (42j)
 Dolph Constr. Co., Dallas, Texas (42a)
 Domenick, Frank, & Co., Inc., Newark, N. J. (29a)
 Donahoo, A. G., Contr. Co., Birmingham, Ala. (1a)
 Donahoo, H. N., Birmingham, Ala. (1a)
 Donahue, E. J., Salinas, Calif. (4a)
 Donatelli, Frank, Co., Inc., Pittsburgh, Pa. (37c)
 Dondlinger & Sons Constr. Co., Wichita, Kans. (15a)
 Donnellan, G. P., Atlanta, Ga. (10a)
 Donnelly, I. J., Constr. Co., St. Paul, Minn. (22a)
 Doolittle Constr. Co., Seattle, Wash. (46a)

(Numerals after names indicate the Chapter in which member belongs—See Key to Listing of A. G. C. Units—page 217). N—National Member (page 315). L—Local Member.

Doran, A. L., Peru, Ind. (13b)
 Dorland, E. H., Constr. Co., Salt Lake City, Utah (43a)
 Dotterer Engr. Co., Charleston, S. C. (32a)
 Doty Bros., Bellflower, Calif. (4d)
 Dougherty, A. L., Co., Indianapolis, Ind. (13a) (31d)
 Dougherty, C. J., & Sons, Inc., Wilmington, Del. (7a)
 Dougherty-Liddell Constr. Co., Memphis, Tenn. (41c)
 Douglas Bros., Inc., Topeka, Kans. (15b)
 Douglas Constr. Co., Topeka, Kans. (15a)
 Douglas, Damon G., Co., Newark, N. J. (1)
 Douglass & Woodhouse, Redwood City, Calif. (4b)
 Dow Constr. Co., Houston, Texas (42d)
 Dowell, L. J., Inc., Seattle, Wash. (46a)
 Dowling Constr. Co., Williamstown, W. Va. (47a)
 Downer Co., Inc., Stockton, Calif. (4b)
 Doyle & Russell, Richmond, Va. (45a)
 Drainage Contrs., Inc., Dearborn, Mich. (21c)
 Drake, Donald M., Co., Portland, Ore. (36b)
 Drape Constr. Co., Waverly, Iowa (14b)
 Draper, Archie, Red Bluff, Calif. (4b)
 Dravo Corporation, The Contracting Division, Pittsburgh, Pa. (N) (37c) (47a)
 Dreier & Son Constr. Co., Kansas City, Kans. (24a)
 Drescher Co., Milwaukee, Wis. (48a)
 Drew, Jas. H., Corp., Indianapolis, Ind. (13b)
 Driscoll, Geo. F., Co., New York City (31c)
 Driscoll, L. F., Co., Philadelphia, Pa. (37d)
 Driver, C. W., Inc., Los Angeles, Calif. (4d)
 Driver Constr. Co., The, Memphis, Tenn. (23a)
 Dudley Constr. Co., Great Falls, Mont. (25b)
 Duesenberg, E. M., Inc., Clear Lake, Iowa (14a)
 Duffy Constr. Co., Cleveland, Ohio (34c)
 Duffy, Warren C., Nampa, Idaho (11a)
 Dugdale Constr. Co., Omaha, Nebr. (26b)
 Duhamel, Elmer W., Constr. Co., Phoenix, Ariz. (2a)
 Duinick Bros. & Gilchrist, Olivia, Minn. (22a)
 DuLaney, P. F., Washington, D. C. (8a)
 Dunbar Co., The, Cleveland, Ohio (34c)
 Duncan-Harrelson Co., The, Richmond, Calif. (4b)
 Duncan, Horace O., Fort Worth, Texas (42c)
 Dunkin, W. R., & Son, Inc., Bluffton, Ind. (13b)
 Dunlap & Co., Inc., Columbus, Ind. (13b)
 Dunlop & Johnston, Inc., Cleveland Heights, Ohio (34c)
 Dunn Constr. Co., Inc., Birmingham, Ala. (1a)
 Dunn, J. E., Constr. Co., Kansas City, Mo. (24a)
 Dunn, J. M., & Son, Knoxville, Tenn. (41b)
 Dunn, Louis C., Inc., San Francisco & Los Angeles, Calif. (4a) (4d)
 Dunning, Chas. M., Constr. Co., Oklahoma City, Okla. (35a)
 Dupree, Henry G., Jacksonville, Fla. (9a)
 Durell, E. Clifford, & Son, Inc., Philadelphia, Pa. (37d)
 Durham Elec. Constr. Co., Inc., Durham, N. C. (32a)
 Durrett, Jack, Keota, Okla. (35b)

Dutcher Constr. Corp., Queenstown, Md. (19b) (31d)
 Dutton, Chas. A., Assos., Long Beach, Calif. (4d)
 Duval Engr. & Contr. Co., Jacksonville, Fla. (9a)
 Duvall, P. K., Inc., Logan, Iowa (14a)
 Dwan Constr. Co., Dorchester, Mass. (20b)
 Dwight Bldg. Co., The, New Haven, Conn. (6a)
 Dye & Mullings, Inc., Columbia, Miss. (23b)
 Dyer, A. L., & Sons, McBrides, Mich. (21c)
 Dyer, Hal C., Dallas, Texas (42a)
 Dyson & Co., Pensacola, Fla. (9d)

E

E. & F. Constr. Co., Inc., The, Bridgeport, Conn. (6a)
 Eady, Geo. M., Co., Louisville, Ky. (16b)
 Eagle Contrs. of Utica, Inc., Utica, N. Y. (31d)
 Earley, Roy T., Co., Tacoma, Wash. (36a) (46d)
 Early, Fred J., Jr. Co., Inc., San Francisco & Torrance, Calif. (4a) (4d)
 East Carolina Constr. Co., Dunn, N. C. (32a)
 East Coast Constr. Co., Jacksonville, Fla. (9a)
 East Shore Asphalt Paving Co., Alpena, Mich. (21c)
 Eastern Constr. Co., Rocky Mount, N. C. (32a)
 Eastern Constr. Co., Inc., Dallas, Texas (42m)
 Eastern Highways Corp., Brooklyn, Md. (19b)
 Easton Constr. Co., Ames, Iowa (14a)
 Eaton, L. W., Co., Inc., Baton Rouge, La. (17d)
 Eaton & Smith, San Francisco, Calif. (4b)
 Ebeling, Robt. M., Constr. Co., Wheeling, W. Va. (47a)
 Eblen, Orville, Atlantic, Iowa (14a)
 Eby-Johnson Co., Starbuck, Minn. (22a)
 Eby, Martin K., Constr. Co., Inc., Wichita, Kans. (15a)
 Eckert-Fair Constr. Co., Dallas, Texas (42a)
 Eckman, Chas. A., Co., Wilmington, Del. (7a)
 Eddleman, C. C., Philadelphia, Pa. (37d)
 Edgeworth Constr. Co., Corpus Christi, Texas (42i)
 Edison, L. W., Grand Rapids, Mich. (21c)
 Edlefsen-Weygandt Co., Portland, Ore. (36a)
 Edmir Constr. Co., Inc., Charleston, W. Va. (47a)
 Edison, R. C., Storm Lake, Iowa (14b)
 Edwards Constr. Co., Inc., Coral Gables, Fla. (9b)
 Edwards, J. C., Orangeburg, S. C. (32a)
 Edwards, Jas. J., San Carlos, Calif. (4b)
 Edwardsville Constr. Co., Edwardsville, Ill. (12c)
 Ehorn, Liston, Red Bluff, Calif. (4a)
 Ehrhart & Arthur, Inc., Los Angeles, Calif. (4d) (4b)
 Eian & Ness, Fergus Falls, Minn. (22a)
 Eichelberger & Harwood, Inc., Santa Monica, Calif. (4d)
 Eichleay Corp., Pittsburgh, Pa. & San Francisco, Calif. (4b) (37b) (37c)

Eickhof, Otto J., & Sons, Inc., Crookston, Minn. (22a)
 Eidemiller, Adam, Greensburg, Pa. (37c)
 Eidson Constr. Co., Mocksville, N. C. (32a)
 Eiland, Edw. H., Tallulah, La. (17g)
 Eiland, Jas. A., Jr., Bunkie, La. (17f)
 Eiring & Prothero, Hermiston, Oreg. (36a)
 Eisele, John H., Co., Inc., New York City (31c)
 Eisenberg, Eugene R., Inc., Boston, Mass. (20b)
 Eisenhower, E., Corpus Christi, Texas (42i)
 Eitze-Kitchens Constr. Co., Austin, Texas (42k)
 Ekdahl, Hilding, Ft. Dodge, Iowa (14a)
 Elam Contr. Co., St. Louis, Mo. (24c)
 Elder Constr. Co., Denver, Colo. (5a)
 Eldridge Constr. Co., Kansas City, Kans. (24a)
 Eldridge Constr. Co., Enid, Okla. (35a)
 Elford, E., & Son, Inc., Columbus, Ohio (1)
 Ellard Constr. Co., Inc., Birmingham, Ala. (1a)
 Ell-Dorner Constr. Co., Irvington, N. J. (29a)
 Elle, C. H., Constr. Co., Pocatello, Idaho (11a)
 Ellington, Thos., San Francisco, Calif. (4a)
 Ellington-Miller Co., Chicago, Ill. (12a)
 Elliott Bros., Inc., Perry, Okla. (35b)
 Elliott Bldg. Co., Hickory, N. C. (32a)
 Elliott, Hiram, Constr. Co., Kansas City, Mo. (24a)
 Elliott, W. J., McConnellsville, Ohio (34d)
 Ellis, A. J., Constr. Co., Inc., Philadelphia, Pa. (29a)
 Ellis Constr. Co., Ephrata, Wash. (46a)
 Ellis, Edw. H., & Sons, Inc., Merchantville, N. J. (29a)
 Ellis, G. W., Constr. Co., North Hollywood, Calif. (4d)
 Ellis-Nicholson & Cramer, Inc., Oklahoma City, Okla. (35a)
 Ellis-Thompson Constr. Co., Inc., Tampa, Fla. (9c)
 Ellis, Wm. H., & Son Co., East Boston, Mass. (20a)
 Ellison Constr. Co., Carthage, Ill. (12c)
 Elmhurst Constr. Co., Inc., Corona, L. I., N. Y. (31d)
 Elmore Constr. Co., Catawba, N. C. (32a)
 El Rio Rock Co., Ventura, Calif. (4d)
 Ely, I. J., Co., San Anselmo, Calif. (4b)
 Elzinga & Volkers, Holland, Mich. (21b)
 Emco Constr. Co., Algona, Iowa (14a)
 Emerson, Sam W., Co., The, Cleveland, Ohio (34c)
 Emme, H. F., Constr. Co., Rapid City, S. Dak. (40a)
 Emory & Richards, Knoxville, Tenn. (41b)
 Empire Constr. Co., Englewood, Colo. (5a)
 Empire Constr. Co., Portland, Oreg. (36a)
 Empire Constr. Co., The, Baltimore, Md. (19b)
 Emco Concrete Cutting Co. of Los Angeles, Los Angeles, Calif. (4d)
 Emco of San Francisco, San Francisco, Calif. (4a) (4b)
 Emtman, Eric W., Riverside, Calif. (4d)
 Engbrock Constr. Co., Houston, Texas (42d)
 Engineered Fixture Systems, Mountain View, Calif. (4b)
 Engineers, Ltd., San Francisco & Los Angeles, Calif. (4a) (4d)

A.G.C. DIRECTORY

Engineers Ltd. Pipeline Co., San Francisco & El Cerrito, Calif. & Denver, Colo. (4b) (5b) (42m) (4d)
 England & Roth Constr. Co., Rapid City, S. Dak. (40a)
 English Constr. Co., Altavista, Va. (45a)
 English, Frank G., & Sons, Philadelphia, Pa. (37d)
 English, N. F., Constr. Co., Inc., Hutchinson, Kans. (15a) (15b)
 Enix Constr. Co., Amarillo, Texas (42j)
 Ensey, John H., Baltimore, Md. (19b)
 Epperson & Co., Sumner, Iowa (14b)
 Equipment Rental & Contr. Co., Houston, Texas (42d)
 Erbentraut & Summers, San Francisco, Calif. (4a)
 Erickson, Al. & Co., Napa, Calif. (4b)
 Erickson Constr. Co., Assaria, Kans. (15b)
 Erickson Constr. Co., North Sacramento, Calif. (4a)
 Erickson Paving Co., Seattle, Wash. (46a)
 Erickson, Phillips & Weisberg, Oakland, Calif. (4b)
 Ericsson, Henry Co., Chicago, Ill. (12a)
 Erie Constr. & Engr. Corp., Passaic, N. J. (29a)
 Erland & Blickle, Portland, Oreg. (36a)
 Ernest Asphalt Sales Co., St. Louis, Mo. (12c)
 Ernest Constr. Co., Inc., Mobile, Ala. (1a)
 Ertz, John, Constr. Co., Oklahoma City, Okla. (35b)
 Erwin, R. A., Colton, Calif. (4d)
 Esch Constr. Co., Cleveland, Ohio (34c)
 Escherich Bros., Inc., Los Angeles, Calif. (4d)
 Esslinger, Wm., Constr. Co., Detroit, Mich. (21a)
 Eure, N. F., Beaufort, N. C. (32a)
 Evans, A. N., Columbus, Texas (42d)
 Evans Constr. Co., Springfield, Ill. (L)
 Evans Constr. Co., Kinston, N. C. (32a)
 Evans, Geo. H., & Co., Philadelphia, Pa. (37d)
 Evans, J. C., Austin, Texas (42k)
 Evans, S. E., Constr. Co., Fort Smith, Ark. (3a) (35b)
 Everds Bros., Algona, Iowa (14a)
 Everett, Claude, Inc., Houston, Texas (42j)
 Evert, S. H., Co., Inc., Bloomsburg, Pa. (37a)
 Ewell, J. L., Lakeland, Fla. (9c)
 Ewin Engr. Corp., Mobile, Ala. (1a)
 Excavators, Inc., Seattle, Wash. (46a)
 Eyring, E., & Sons Co., Baltimore, Md. (19a)

F

F. & O. Corp., Daly City, Calif. (4a)
 F & S Contr. Co., Butte, Mont. (25a)
 Fadel, Norman I., North Hollywood, Calif. (4d)
 Fagre Constr. Co., Estherville, Iowa (14b)
 Fairfield Trucking Co., Fairfield, Calif. (4b)
 Falasco, T., Los Banos, Calif. (4a)
 Falk, L. R., St. Ansgar, Iowa (14a)
 Famularo, A. H., Santa Ana, Calif. (4d)
 Farina Bros., Newton, Mass. (20b)
 Farish, Robt. A., San Francisco, Calif. (4b)
 Farley, L. E., Inc., Houston, Texas (42m)

Farmer & Godfrey, Phoenix, Ariz. (2a)
 Farnsworth & Chambers Co., Inc., Houston, Texas; New Orleans, La. & Dallas, Texas (17a) (42a) (42j) (42f)
 Farnsworth, R. P., & Co., Inc., Baton Rouge & New Orleans, La. & Beaumont, Texas (17a) (17d) (17e) (42h)
 Farquhar, Neelley B., College Station, Texas (42f)
 Farr, R. T., Rogers, Texas (42f)
 Farrell Contr. Co., St. Paul, Minn. (22a)
 Farrell, Jos. R., Philadelphia, Pa. (37d)
 Farrow, E. E., Co., Dallas, Texas (42j)
 Farthing Bros., Streator, Ill. (12a)
 Fatout Bldg. Co., The, Indianapolis, Ind. (13b)
 Fauber Constr. Co., Lafayette, Ind. (13a)
 Fauber, L. Walker, Ashland, Ohio (13a)
 Faulkner Constr. Co., Ferndale, Mich. (21a)
 Faull, Donald L., Santa Rosa, Calif. (4a)
 Favret, Lionel F., New Orleans, La. (17a)
 Favrot, Gervais F., Co., New Orleans, La. (17a)
 Fay Improvement Co., San Francisco, Calif. (4b)
 Fazio, Walter E., Sacramento, Calif. (4b)
 Federal Constrs., Inc., Chicago, Ill. (12a)
 Feeney Constr. Co., St. Joseph, Mo. (24b)
 Fegles Constr. Co., Ltd., Minneapolis, Minn. (22a)
 Feigel Constr. Corp., Evansville, Ind. (13a)
 Fell & Anton, Waterloo, Iowa (14b)
 Feller, L. M., Co., Rochester, Minn. (22a)
 Felmley, John, Co., Bloomington, Ill. (L)
 Ferguson Bros., Oakland, Calif. (4b)
 Ferguson Corp., Hampton, Va. (45a)
 Ferguson-Diehl, Inc., Jefferson, Iowa (14a)
 Ferguson & Edmondson Co., Pittsburgh, Pa. (37c) (47a)
 Ferguson, H. K., Co., The, Cleveland, Ohio & Houston, Texas (34c) (42d)
 Ferguson, H. S., Co., Seattle, Wash. (46b)
 Ferguson, Hubert, Dallas, Texas (42j)
 Ferrante, Anthony, & Son, Inc., Bernardsville, N. J. (29a)
 Ferro Concrete Constr. Co., Cincinnati, Ohio (34b)
 Ferry Constr. Co., Atlantic City, N. J. (29a)
 Ferry, Peter L., & Son, Glendale, Calif. (4d)
 Fessler, Frank, Salina, Kans. (15a)
 Feutz, Frank C., Co., Paris, Ill. (12c)
 Field, C. O., Co., Minneapolis, Minn. (22a)
 Fielding & Shepley, Inc., St. Paul, Minn. (22a) (46a)
 Fielland, C. A., Inc., Tampa, Fla. (9c)
 Fife & Stoddard, Gridley, Calif. (4a)
 Fiksdal & Ness, Seattle, Wash. (46b)
 Finan Constr. Co., Los Angeles, Calif. (4d)
 Findorff, J. H., & Son, Inc., Madison, Wis. (48b)
 Fine, W. M., Spartanburg, S. C. (32a)
 Fiorito Bros., Seattle, Wash. (46a)
 Fiorito, N., Co., Seattle, Wash. (46a)
 Fisher, Alfred P., San Francisco, Calif. (4a)
 Fisher, Claude, Co., Ltd., Los Angeles, Calif. (4d)
 Fisher Constr. Co., Houston, Texas (42d)
 Fisher Contr. Co., Phoenix, Ariz. (2a)
 Fisher-DeVore Constr. Co., Cincinnati, Ohio (34b)
 Fisher, J. M., Norman, Okla. (35b)

Fisher, L. S., Woodward, Okla. (35b)
 Fisher, O. B., & Sons, Logan, W. Va. (47a)
 Fiske-Carter Constr. Co., Spartanburg & Greenville, S. C. (32a)
 Fitch-Eva Co., The, Howell, Mich. (21c)
 Fitchett, Leslie, & Son, Merced, Calif. (4a)
 Fitzgerald Bros. Constr. Co., Inc., Troy, N. Y. (31d)
 Fitzgerald Engr. & Constr. Co., Los Angeles, Calif. (4d)
 Fitzmaurice, J. H., Oakland, Calif. (4a)
 FitzSimons & Connell Dredge & Dock Co., Chicago, Ill. (12a)
 Flagler Co., The, Atlanta, Ga. (10a)
 Flanders Constr. Co., Houston, Texas (42d)
 Flanagan, P., & Sons, Inc., Baltimore, Md. (19b)
 Flaten, Ole, Minot, N. Dak. (33a)
 Fleisher Engr. & Constr. Co., Minneapolis, Minn. (22a)
 Fleming Co., Philadelphia, Pa. (37d)
 Fleming, Edw. M., Constr. Co., Miami, Fla. (9b)
 Fleming & Kilgo Constr. Co., East Alton, Ill. (12c)
 Flenniken Constr. Co., Shreveport, La. (17e)
 Flett Constr. Co., Kansas City, Mo. (24a)
 Flickinger, D. A., Phoenix, Ariz. (2a)
 Flint Bros. Constr. Co., Jackson, Miss. (23b)
 Fluor Bros. Constr. Co., Oshkosh, Wis. (48b)
 Fluor Corp., Ltd., The, Los Angeles, Calif. (4d)
 Flynn, Jos. P., Providence, R. I. (38a)
 Flynn, T. P., & Co., Detroit, Mich. (21c)
 Foard, Edison, Charlotte, N. C. (32a)
 Foard, Ernest, Charlotte, N. C. (32a)
 Focht, L. H., & Son, Inc., Reading, Pa. (37a)
 Fogel Contrs., Inc., Kansas City, Mo. (24a)
 Fogelberg, O. A., Lafayette, Calif. (4b)
 Foley Brothers, Inc., St. Paul, Minn. (22a)
 Foley Brothers, Inc., Pleasantville, N. Y. (N)
 Foley Constr. Co., Cincinnati, Ohio (34b)
 Foley, Robt. E., Constr. Corp., Binghamton, N. Y. (31d)
 Folsom Constr. Co., Denver, Colo. (5a)
 Fontana, D. M., Wilmington, Del. (7a)
 Forcum-James Co., Dyersburg, Tenn. (N) (23a)
 Ford, Bacon & Davis Construction Corp., Monroe, La. & New York, N. Y. (N) (17g)
 Ford Constr. Co., Janesville, Wis. (48b)
 Ford, E. Paul, San Diego, Calif. (4c)
 Ford, R. W., Marion, Ill. (12c)
 Forde, E. A., San Anselmo, Calif. (4b)
 Fordice Constr. Co., Memphis, Tenn. (23a)
 Foreman, C. S., Co., North Kansas City, Mo. (24b) (42m)
 Forest City Improvement Co., Forest City, Iowa (14b)
 Forgey Constr. Co., Casper, Wyo. (49a)
 Forgy Constr. Co., San Antonio, Texas (42e)
 Fors, Carl S., Co., Murray, Utah (43a)
 Forsgren Bros., Fort Smith, Ark. (3a)
 Forster, A. J., Paola, Kans. (15b)
 Foshee, D. O., Inc., Jacksonville, Fla. (9a)
 Foster & Bamford, Inc., Concord, N. H. (28a)
 Foster Bros., Port Arthur, Texas (42h)
 Foster & Creighton Co., Nashville, Tenn. & Birmingham, Ala. (1a) (41d)
 Foster, J. M., & Co., Gary, Ind. (13b)

(Numerals after names indicate the Chapter in which member belong—See Key to Listing of A. G. C. Units—page 217). N—National Member (page 315). L—Local Member.

- Foster, Karl B., Flint, Mich. (21b)
 Foster, M. H., Constr. Co., Inc., Tampa, Fla. (9c)
 Foster & McHarg, Marysville & Riverside, Calif. (4d) (27a) (4b)
 Foster Schermerhorn Foster, Inc., Lansing, Mich. (21b)
 Foster-Smetana Co., Omaha, Nebr. (26a)
 Foster, W. A., Constr. Co., Burlington, N. C. (32a)
 Fowler-Jones Constr. Co., Winston-Salem, N. C. (32a)
 Fowler-Veranth Constr. Co., Duluth, Minn. (22a)
 Fox, Delton T., Bridgeton, N. J. (29a)
 Fox & Fox, St. Petersburg, Fla. (9c)
 Fox, H. H., Constr. Co., Kansas City, Mo. (24a)
 Fox Valley Constr. Co., Appleton, Wis. (21c)
 France, Geo. E., Visalia, Calif. (4b)
 Francis Constr. Co., Santa Rosa, Calif. (4b)
 Frank, D. T., Constr. Co., East Lansing, Mich. (21c)
 Frank, J. S., Salina, Kans. (15a)
 Frank, P. L., Constr. Co., Ravenna, Ohio (34a)
 Frankenfeld Constr. Co., Winfield, Kans. (15a)
 Franklin Asphalt Co., Benton, Ill. (12c)
 Franklin Constr. Co., Newark, N. J. (29a)
 Frantz Constr. Co., The, Baltimore, Md. (19a)
 Frapaul Constr. Co., Rochelle Park, N. J. (29a)
 Fraser, Carlisle G., St. Paul, Minn. (22a)
 Fraser Constr. Co., Inc., Fort Smith, Ark. (3a)
 Frazier Constr. Co., Oklahoma City, Okla. (35b)
 Frazier-Davis Constr. Co., St. Louis, Mo. (24c)
 Frederickson & Kasler, Sacramento, Calif. (4b)
 Frederickson-Parks, Inc., Oklahoma City, Okla. (35a)
 Fredman, J. A., Pontiac, Mich. (21a)
 Fredrickson Bros., Emeryville, Calif. (4b)
 Fredrickson & Watson Constr. Co., Oakland, Calif. (4b)
 Freeland Constr. Co., Pittsburgh, Pa. (37c)
 Freeland, Jack, & Co., San Antonio, Texas (42f)
 Freeman Constr. Co., Inc., Spring Valley, Minn. (22a)
 Freeman, Jesse H., Inc., Moline, Ill. (12c)
 Freeman & Jones, Inc., Cleveland, Ohio (34c)
 Freethy, Elmer J., El Cerrito, Calif. (4a)
 Freeto Constr. Co., Inc., Pittsburg, Kans. (15b)
 Freigang Constr. Co., Tacoma, Wash. (46d)
 French, Geo., Jr., Stockton, Calif. (4b)
 Fretz Constr. Co., Houston, Texas (42d)
 Fricke, H. C., Alliance, Nebr. (26a)
 Fridholm Constr. Co., St. Paul, Minn. (22a)
 Friedman Constr. Co., Fort Worth, Texas (42c)
 Friel, E. B., & Son, Washington, D. C. (8a)
 Frisbie, J. W., Kansas City, Mo. (15b)
 Frisinger, John H., Inc., Ann Arbor, Mich. (21c)
 Frisinger, Max R., Ann Arbor, Mich. (21c)
 Fritz Constr. Co., Madison, Wis. (48b)
 Fritz, W. G., Co., Inc., West Orange, N. J. (29a)
 Frost Constr. Co., Hydro, Okla. (35b)
 Frouge Constr. Co., Inc., Bridgeport, Conn. (6a)
 Frowine Constr. Corp., Portsmouth, Ohio (34d)
 Fruin-Colnon Contr. Co., St. Louis, Mo. (12d) (24c)
 Fry & Kain, Lansing, Mich. (21c)
 Fuel Economy Engr. Co., St. Paul, Minn. (22a)
 Fuess, C. A., & Co., Dallas, Texas (42a)
 Fuglevand, Chris., & Son, Havre, Mont. (25b)
 Fulcher-Burgher Constr. Co., Austin, Texas (42k)
 Fulghum, Geo. A., & Co., Memphis, Tenn. (41c)
 Fulghum, Kenneth, Inc., Pensacola, Fla. (9d)
 Fulk & Needham, Pilot Mountain, N. C. (32a)
 Fullan Constr. Co., Scottsbluff, Nebr. (26a)
 Fuller-Davies Co., The, Cincinnati, Ohio (16a)
 Fuller, George A., Company, New York, N. Y.; Chicago, Ill.; Boston, Mass.; Washington, D. C. & Pittsburgh, Pa. (N) (12a) (31c) (37b)
 Fuller & Julien, Inc., Raleigh, N. C. (32a)
 Fullerton & Hussey, Oklahoma City, Okla. (35b)
 Fullmer Bros., Salt Lake, Utah (43a)
 Fulton Constr. Co., Houston, Texas (42d)
 Fulton, E. A., Boise, Idaho (11a)
 Fulton, R. H., & Co., Lubbock, Texas (42m)
 Fulton, W. D., Constr. Co., Oklahoma City, Okla. (35b)
 Funderburk Constr. Co., Arlington, Wash. (46a)
 Fuqua, Fred B., Lynchburg, Va. (45a)
 Furr, D. O., Constr. Co., Shreveport, La. (17b)
 Fusco-Amatruda Co., The, New Haven, Conn. (6a)
 Fusco, J. R., Inc., Montclair, N. J. (29a)
- G**
- G-I Constr. Co., Meeker, Okla. (35b)
 Gaasland Co., Inc., Bellingham, Wash. & Denver, Colo. (5a) (46b)
 Gaddie, R. E., Inc., Bowling Green, Ky. (16a)
 Gaines Bros., Miami, Okla. (35b)
 Galiardi Constr. & Supply Co., Connellsville, Pa. (37c)
 Gallagher Asphalt Co., Inc., Thornton, Ill. (12c)
 Gallagher & Burk, Inc., Oakland, Calif. (4b)
 Gallant, C. W., Inc., Charlotte, N. C. (32a)
 Gallespie Constr. Co., Jacksonville, Fla. (9a)
 Gallimore, L. B., Greensboro, N. C. (32a)
 Gallinger Constr. Co., Gardena, Calif. (4d)
 Gamble Constr. Co., St. Louis, Mo. (24c)
 Games, Earl E., Reno, Nev. (27a)
 Ganley, Ernest M., Co., Inc., Minneapolis, Minn. (22a)
 Ganley, Howard, Inc., St. Paul, Minn. (22a)
 Gannaway, F. J., Norfolk, Va. (45a)
 Ganschietz, Ferd., East St. Louis, Ill. (12d)
 Ganther, Ben B., Co., Oshkosh, Wis. (48b)
 Garavaglia, Louis, Centerline, Mich. (21c)
 Gardner Constr. Co., Glenwood Springs, Colo. (5b)
 Gardner Constr. Co., Nashville, Tenn. (41d)
 Gardner, Elmer C., Inc., Houston, Texas (42j)
 Gardner, W. W., Salt Lake City, Utah (43a)
 Garff, Mark B., Ryberg & Garff, Salt Lake City, Utah (43a)
 Garland Constr. Co., Ltd., Rayville, La. (17g)
 Garmer & Stiles Co., Des Moines, Iowa (14b)
 Garmong, C. H., & Son, Terre Haute, Ind. (13b)
 Garms, Grady, Little Rock, Ark. (3a)
 Garon Constr. Co., Inc., Manchester, N. H. (28a)
 Garriott, Jay A., Bedford, Ind. (13b)
 Gaspard Constr. Co., The, Cleveland, Ohio (34c)
 Gast Constr. Co., Warsaw, Ind. (13a)
 Gast & Ray Contr. Co., Louisiana, Mo. (24b)
 Gates, E. L., Inc., Salem, Oreg. (36a)
 Gaylord Constr. Co., Houston, Texas (42f)
 Gebhard-Berghammer, Inc., Milwaukee, Wis. (48a)
 Gee Constr. Co., Shenandoah, Iowa (14a)
 Geer-Maurer Constr. Co., Grand Island, Nebr. (26a)
 Geery, Glenn, Inc., Missoula, Mont. (25a)
 Gehring, C. I., Bartlesville, Okla. (35a)
 Gehring, F. P., Atchison, Kans. (15a)
 Gehron, Jacob, Co., Inc., The, Williamsport, Pa. (37a)
 Geiger, E. W., Inc., Topeka, Kans. (15b)
 Gellatly Constr. Co., The, Bridgeport, Conn. (6a)
 General Bldrs. Co., Springfield, Ill. (12c)
 General Constr. Co., Shreveport, La. (17b)
 General Constr. Co., Columbia, S. C. (32a)
 General Constr. Co., Fort Worth, Texas (42f)
 General Construction Company, Seattle, Wash. & Portland, Oreg. (N) (36a) (46a) (46c)
 General Constr. Co. of Michigan City, Inc., Michigan City, Ind. (13b)
 General Constr. Corp., Oklahoma City, Okla. (35b)
 General Contr. Co., Charleston, S. C. (32a)
 General Contr. Co., Inc., Granite City, Ill. (12d)
 General Dredg. Co., Inc., Fort Wayne, Ind. (13a)
 General Engr. Co., Topeka, Kans. (15b)
 General Engr. Corp., Florence, S. C. (32a)
 General Paving Co., Champaign, Ill. (12c)
 General Paving Constr. Co., Grand Rapids, Mich. (21c)
 General Service, Inc., Minneapolis 2, Minn. (22a)
 George Constr. Co., Houston, Texas (42j)
 George, Henry, & Sons, Spokane, Wash. (46e)
 George, J. D., Co., Waco, Texas (42j)
 George & Lynch Co., Wilmington, Del. (7a)
 Georgia Southern Constr. Co., Macon, Ga. (10a)
 Gerhold Co., Columbus, Nebr. (26b)
 Germer, Abbott & Waldron Constr. Co., Tremont, Utah (43a)
 Gerometta Constr. Co., Gary, Ind. (13b)
 Gerwick, Ben C., Inc., San Francisco, Calif. (4b)
 Gessler Contr. Co., Inc., Syracuse, N. Y. (31d)
 Gethmann Constr. Co., Inc., Gladbrook, Iowa (14b)
 Getman Bros., South Haven, Mich. (21c)
 Geupel, Carl M., Constr. Co., Indianapolis, Ind. (13b)
 Geyer, Harold C., Monterey, Calif. (4a)

A.G.C. DIRECTORY

- Gibbons, Jas., Co., The, Relay, Md. (19b)
 Gibbons & Reed Co., Salt Lake City, Utah (43a)
 Giblein, L. J., Groves, Texas (42b)
 Gibson, John H., Durham, N. C. (32a)
 Gien, Seth E., & Assos., Memphis, Tenn. (41c)
 Giersten, Walter D., Co., Minneapolis, Minn. (22a)
 Gifford-Hill & Co., Inc., Dallas, Texas (42f)
 Gilbane Bldg. Co., Providence, R. I. (38a)
 Gilbert Bros., Monroe, La. (17g)
 Gilbert Engr. Co., Inc., Statesville, N. C. (32a)
 Gilbert, F. O., Contr., Inc., Bossier City, La. (17b)
 Gilchrist Constr. Co., Las Cruces, N. Mex. (30b)
 Gill, Harry, Co., Philadelphia, Pa. (37d)
 Gilliland Constr. Co., Alpena, Mich. (21c)
 Gillisse, John & Paul, Grandville, Mich. (21c)
 Gillmore, Carmichael & Olson Co., The, Cleveland, Ohio (34c)
 Gionetti Constr. Co., Des Moines, Iowa (14a)
 Gilmore Constr. Co., Omaha, Nebr. (26a)
 Gilpatrick, M. J., Constr. Co., Riverton, Wyo. (49a)
 Gilpin Constr. Co., The, Warren, Ohio (34a)
 Gilpin Construction Co., The, Portland, Oreg. (N) (36a)
 Giordano Constr. Co., Branford, Conn. (6a)
 Gipson, B. A., Constr. Co., Inc., Lake Charles, La. (17c)
 Girvin & White, Jacksonville, Fla. (9a)
 Gist, John C., Sacramento, Calif. (4b)
 Giusto, B. L., San Francisco, Calif. (4a)
 Gjellefald Constr. Co., Forest City, Iowa (14a)
 Glade Constr. Co., Fort Worth, Texas (42j)
 Glaser, A. J., Co., Inc., Muncie, Ind. (13b)
 Glass Constr. Co., Belvidere, Ill. (12b)
 Glaze Construction Company, St. Joseph, Mo. (L)
 Glenn Constr. Co., Charlotte, N. C. (32a)
 Glenroy Co., Indianapolis, Ind. (13b)
 Globe Constr. Co., Wichita, Kans. (15b)
 Globe Constr. Co., Kalamazoo, Mich. (21c)
 Globe Constr. Co., Inc., New Orleans, La. (17a)
 Glover, Geo. J., Co., New Orleans, La. (17a)
 Godley-Hinnant, Inc., Wilmington, N. C. (32a)
 Goetting, E., & Sons, Tacoma, Wash. (46d)
 Goetz & Brennan, Seattle, Wash. (46a)
 Goforth, Earl, Amarillo, Texas (42g)
 Goldberg, A. N., Inc., New Orleans, La. (17a) (17c)
 Golden, M. H., Constr. Co., San Diego, Calif. (4c)
 Golder Constr. Co., Inc., Philadelphia, Pa. (37d)
 Goldman, Perry J., Constr. Co., Philadelphia, Pa. (37d)
 Goldston Co., The, Corpus Christi, Texas (42i)
 Gooch, J. Y., Co., Inc., Miami, Fla. (9b)
 Good Roads Engr. & Contr. Co., Inc., Waukegan, N. Y. (31d)
 Goode Constr. Corp., Charlotte, N. C. (32a)
 Goode & Schroeder, Inc., Los Angeles, Calif. (4d)
 Goodenough, Wells P., Palo Alto, Calif. (4a)
 Goodfellow Bros., Inc., Wenatchee, Wash. (46a)
 Gooding, O. E., & Co., Ypsilanti, Mich. (21c)
 Goodwin, C. J., Pittsburgh, Pa. (37b)
 Goodwin, Carl, & Sons, Allegan, Mich. (21c)
 Goodwin Constr. Co., Blackfoot, Idaho (11a)
 Goodwin Constr. Co., Inc., Danville, Ind. (13a)
 Goral & Meyer, Los Angeles, Calif. (4d)
 Gordon Constr. Co., Denver, Colo. (5b)
 Gorman Constr. Co., Flemingsburg, Ky. (16a)
 Goss, Jos. H., Newark, Ohio (34d)
 Goss, Wm. R., Co., Chicago, Ill. (12a)
 Gossen Constr. Co., Lafayette, La. (17f)
 Gould Constr. Co., The, Davenport, Iowa & San Carlos, Calif. (4a) (14a)
 Gould & Cross, Grand Rapids, Mich. & Wilmington, Calif. (4d) (21c)
 Goulter, K. L., & Co., Dexter, Oreg. (36a)
 Govan, Hugh, Port Angeles, Wash. (46a)
 Grabau, R. H., Constr. Co., Boone, Iowa (14b)
 Grabbe, H. A., Constr. Co., Alton, Ill. (12d)
 Grace Constr. & Supply Co., The, Fort Wayne, Ind. (13a)
 Gradle Bros., Inc., Carmel, Ind. (13a)
 Grady Bros., Inc., Indianapolis, Ind. (13a)
 Grafe-Callahan Constr. Co. & Gunther & Shirley, Los Angeles, Calif. (4d)
 Graft, E. W., Constr. Co., Saginaw, Mich. (21c)
 Gragg, O. R., Henryetta, Okla. (35b)
 Graham Bros., Richmond, Va. (45a)
 Graham, J. F., Tacoma, Wash. (46d)
 Graham & Jensen, Merced, Calif. (4a)
 Graham-Keeling Corp., Miami, Fla. (9b)
 Graham, P. A., Shreveport, La. (17b)
 Graham, W. E., & Sons, Cleveland, N. C. (32a)
 Graham, Wilbur L., Kalispell, Mont. (25b)
 Grand Rapids Asphalt Paving Co., Grand Rapids, Mich. (21c)
 Grandview Constr. Corp., The, Mt. Vernon, N. Y. (31d)
 Grandy, E. F., Laguna Beach, Calif. (4d)
 Granger Bros., Lansing, Mich. (21b)
 Granite Bituminous Paving Co., St. Louis, Mo. (12c) (24b) (24c)
 Granite Constr. Co., Watsonville, Calif. (4b) (4d)
 Grannis & Sloan, Inc., Fayetteville, N. C. (32a)
 Grant Constr. Co., Coeur d'Alene, Idaho (46c)
 Grantwood Contr. Co., Inc., St. Louis, Mo. (24b) (24c)
 Grau, H. C., Sr., Philadelphia, Pa. (37d)
 Graves Bros. Co., Melvin, Iowa (14a)
 Gravier & Harper, Alexandria, La. (17f)
 Gray, C. E., Emporia, Kans. (15b)
 Gray, Len, Brentwood, Mo. (24b)
 Gray, W. A., Constr. Co., Shreveport, La. (17b)
 Grays Harbor Constr. Co., Aberdeen, Wash. (46a)
 Great Lakes Dredge & Dock Co., New Orleans, La. (23a)
 Gredvig, Maurice, Yakima, Wash. (46a)
 Green, B. A., Constr. Co., Lawrence, Kans. (15a)
 Green, Chas. A., & Son, Inc., Appleton, Wis. (48b)
 Green Constr. Co., Des Moines, Iowa (14a)
 Green, Edw., Co., Los Angeles, Calif. (4d)
 Green, Edwin M., Inc., Miami, Fla. (9b)
 Green Island Constr. Co., Watervliet, N. Y. (31d)
 Green, Jas. E., Johnson City, Tenn. (41e)
 Green, Mont J., Manhattan, Kans. (15a)
 Green & Odegard, Inc., Hartford, Conn. (6a)
 Green, Ralph, & W. L. Groesbeck, Des Moines, Iowa & Lincoln, Nebr. (14a) (26b)
 Greene & Gust Co., Chicago, Ill. (12a)
 Greene, Wm. H., Westbury, N. Y. (31d)
 Greenhill Engr. Co., Inc., Washington, D. C. (8a)
 Gregory, Artie, Little Rock, Ark. (3a)
 Gregory, J. M., Raleigh, N. C. (32a)
 Gregory-Roth-Schenker Corp., The, New York, N. Y. (21b)
 Gremillion, A. A., & Co., Alexandria, La. (17f)
 Gremillion Bros., Alexandria, La. (17f)
 Gresham Constr. Co., Santa Clara, Calif. (4a)
 Gresham, E. T., Co., Inc., Norfolk, Va. (45a)
 Gridley Constr. Co., Oxnard, Calif. (4d)
 Griffin Constr. Co., Atlanta, Ga. (10a)
 Griffin Constr. Co., Merriam, Kans. (15b)
 Griffin, John F., Co., Cambridge, Mass. (20b)
 Griffith, G. G., Inc., Tulsa, Okla. (42m)
 Griffith Co., Los Angeles & San Diego, Calif. (4c) (4d)
 Griffith & Moorhead, Atlanta, Ga. (10a)
 Griffiths, John, & Son Constr. Co., Chicago, Ill. (12a)
 Grigg & Arthur Constr. Co., Inc., Reidsville, N. C. (32a)
 Griggs, Raymond, Clovis, N. Mex. (30b)
 Grimshaw, W. R., Co., Tulsa, Okla. (35a)
 Groneman & Co., Provo, Utah (43a)
 Groomes Constr. Co., Cheswick, Pa. (37b)
 Grosshans & Petersen, Inc., Marysville, Kans. (15b) (26b)
 Grosz, M. J., Ft. Dodge, Iowa (14b)
 Grove, Cecil B., San Diego, Calif. (4c)
 Grove, M. J., Lime Co., Lime Kiln, Md. (19b)
 Grove Shepherd Wilson & Kruege, Inc., New York City & Washington, D. C. (8a) (31c)
 Groves, Lundin & Cox, Inc., Minneapolis, Minn. (22a)
 Groves, S. J., & Sons Co., Springfield, Ill.: Minneapolis, Minn.; Woodbridge, N. J. & New York City (12c) (22a) (25a) (29a) (31d) (37c)
 Grundeman Constr. Co., Holton, Kans. (15b)
 Guenther, Gaylord S., & Co., Inc., Niagara Falls, N. Y. (31a)
 Guest, C. M., & Sons, Anderson, S. C. & Greensboro, N. C. (32a)
 Guion, A. H., & Co., Charlotte, N. C. (32a)
 Gulf Bitulithic Co., Houston, Texas (42f)
 Gulf Constr. Co., Mobile, Ala. (1a)
 Gund Graham Co., Freeport, Ill. (12c)
 Gundlach, Herman, Inc., Houghton, Mich. (21d)
 Gunite Concrete & Constr. Co., Houston, Texas (42d)

(Numerals after names indicate the Chapter in which member belongs—See Key to Listing of A. G. C. Units—page 217). N—National Member (page 315). L—Local Member.

Gunn Constr. Co., Los Angeles, Calif. (4d)
 Gunsallus, L. H., & Son, Kendallville, Ind. (13a)
 Gunther, H. H., Constr. Co., Galesburg, Ill. (12c)
 Gustafson, B. L., Phoenix, Ariz. (2a)
 Gustafson, Dave, & Co., Inc., Sioux Falls, S. Dak. (40a)
 Gustafson, Frank N., & Sons, Inc., Providence, R. I. (38a)
 Gustafson, S. E., Constr. Co., Sioux Falls, S. Dak. (40a)
 Gutmann, John B., Constr. Co., Inc., St. Louis, Mo. (24c)

H

H & H Constr. & Supply Co., Thomasville, Ga. (10a)
 HRC Constr. Co., Inkster, Mich. (21a)
 Haagensohn & Tranby, McIntosh, Minn. (22a)
 Haake, Floyd, Santa Fe, N. Mex. (5b) (30a)
 Haas, E. T., Co., Belmont, & East Los Angeles, Calif. (4b) (4d)
 Haas & Rothschild, San Francisco, Calif. (4b)
 Haase Constr. Co., New Orleans, La. (17a)
 Hable, E. W., & Sons, Corsicana, Texas (42f)
 Haddock Engrs., Ltd., Montebello, Calif. & Santa Fe, N. Mex. (4d) (30b)
 Haddock Engrs., Ltd. & Assos., Santa Fe, N. Mex. (50a)
 Haddock, J. E., Ltd., Pasadena, Calif. (4d)
 Haddock, W. D., Constr. Co., Wilmington, Del. (7a)
 Haegg Constr. Co., Cedar Rapids, Iowa (14a)
 Haeseler, A. H., Bldg. & Contr. Co., St. Louis, Mo. (24c)
 Hafer, Guy J., Chambersburg, Pa. (37a)
 Hagen, Harry J., Globe, Ariz. (2a)
 Hagerman Constr. Corp., Fort Wayne, Ind. (13b)
 Haggard Constr. Co., Oklahoma City, Okla. (35b)
 Haggart Constr. Co., The, Fargo, N. Dak. (22a) (40a)
 Haggerty-Messmer Co., Bozeman, Mont. (25b)
 Haglin, C. F., & Sons, Co., Minneapolis, Minn. (22a)
 Hagman, Henry, Cashmere, Wash. (46c)
 Hahn Constr. Co., Des Moines, Iowa (14a)
 Hahn-St. John, Hawthorne, Calif. (4d)
 Hahner & Foreman, Inc., Wichita, Kans. (15a)
 Haigh, Jos., & Sons Co., Chicago, Ill. (12a)
 Hailey, W. L., & Co., Nashville, Tenn. (41d)
 Hainsworth Constr. Co., Seattle, Wash. (46b)
 Hair, H. W., Weirton, W. Va. (47a)
 Hair, J. L., Construction Company, Wichita Falls, Texas (L)
 Hait, C. M., & Son, Charlotte, N. C. (32a)
 Hale, Rogers, Constr. Co., Henderson, Texas (42n)
 Hall-Atwater Co., Seattle, Wash. (46b)
 Hall Bros. Constr. Co., Marysville, Kans. (15b)
 Hall Constr. Co., Atlanta, Ga. (10a)
 Hall Constr. Co., Tacoma, Wash. (46d)
 Hall, E. C., Co., Portland, Oreg. (36a)
 Hall, Guy E., Bakersfield, Calif. (4d)
 Hall, H. H., Constr. Co., East St. Louis, Ill. (12c) (12d)
 Hall, W. E., Constr. Co., Alhambra, Calif. (4d)
 Hall, Wesley, Brownwood, Texas (42f)
 Hallahan, John P., Inc., Philadelphia, Pa. (37d)
 Halleran Bros., Seattle, Wash. (46a)
 Hallett Constr. Co., Crosby, Minn. (22a)
 Hallman Bros., Atlanta, Ga. (10a)
 Hallmark Constr. Co., Phoenix, Ariz. (2a)
 Halloran & Gill, Bakersfield, Calif. (4d)
 Halper Constr. Corp., Los Angeles, Calif. (4d)
 Halpin, L. H., Toledo, Ohio (34d)
 Halprin, Jack A., Inc., New Haven, Conn. (6a)
 Halvorson, Carl M., Portland, Oreg. (25a)
 Halvorson, Carl M., Inc., Portland, Oreg. (36a) (36b)
 Halvorson Constr. Co., Salem, Oreg. (11a)
 Halvorson Contrs., Goleta, Calif. (4d)
 Halvorson, H., Inc., Spokane, Wash. (46c) (46e)
 Hamann Constr. Co., Manitowoc, Wis. (48b)
 Hamby Constr. Co., Inc., Athens, Tenn. (41a)
 Hamer Bros., Inc., Detroit, Mich. (21a)
 Hamilton Bldrs., Olympia, Wash. (46d)
 Hamilton Constr. Co., Inc., Miami, Fla. (9b)
 Hamilton, Gordon, Contr. Co., Inc., Kansas City, Mo. (24b)
 Hamilton & Thoms, Eugene, Oreg. (36a)
 Hamm, Daniel, Drayage Co., St. Louis, Mo. (24c)
 Hammer Bldg. & Supply Co., Inc., Tampa, Fla. (9c)
 Hammock, R. W., Van Buren, Ark. (3a) (35b)
 Hammond, H. W., Denver, Colo. (5a)
 Hammond, Ross B., Co., Portland, Oreg. (36b)
 Hancock Co., Mobile, Ala. (1a)
 Hand, W. H., & Son, Belmont, N. C. (32a)
 Hanes, C. M., Constr. Co., Denver, Colo. (5b)
 Hannaford Constr. Co., Tulsa, Okla. (35a)
 Hansen, Arthur V., Co., Cedar Falls, Iowa (14b)
 Hansen, Chris, Sioux City, Iowa (14b)
 Hansen, D. G., Logan, Kans. (15b)
 Hansen, John, San Diego, Calif. (4c)
 Hansen, Ole, & Sons, Inc., Pleasantville, N. J. (29a)
 Hansen & Parr Constr. Co., Spokane, Wash. (25a) (46c)
 Hanson, A. J., Co., Pineville, La. (23a)
 Hanson Constr. Co., Washington, Iowa (14a)
 Hanson, Frank W., Indianapolis, Ind. (13b)
 Hanson, Olene, Houston, Texas (42f)
 Happel, H. J., Constr. Co., Tulsa, Okla. (42j)
 Harbeson, W. B., Inc., Houston, Texas (42d)
 Hardaway Contr. Co., Columbus, Ga. (10a) (32a)
 Hardee-Walker Constr. Co., Plant City, Fla. (9c)
 Hardin, Ira H., Co., Atlanta, Ga. (10a)
 Harding Blasting Co., Portland, Oreg. (36a)
 Hardison, J. T., & Son, Washington, N. C. (32a)
 Hardison, J. W., Ephrata, Wash. (46a)
 Hardy-Stevens Co., New Orleans, La. (17a)
 Haren & Laughlin Constr. Co., Kansas City, Kans. (24a)
 Harfst-Henson, Seattle, Wash. (46b)
 Harfst, Walter W., Inc., Seattle, Wash. (46b)
 Hargrave Constr. Co., Cedar Rapids, Iowa (14a)
 Haring, Daniel, Co., Inc., Clinton, Iowa (14b)
 Harkins, Wallace D., Albany, Calif. (4b)
 Harlan Constr. Co., Republican City, Nebr. (26b)
 Harlin, E. L., West Plains, Mo. (24b)
 Harlee-Quattlebaum Constr. Co., Florence, S. C. (32a)
 Harlos Constr. Co., Bloomington, Ind. (13b)
 Harman Bros., Grafton, W. Va. (47a)
 Harmeling, Carl C., Stockton, Calif. (4b)
 Harmon Constr. Co., Oklahoma City, Okla. (35a)
 Harms Bros., Sacramento, Calif. (4b)
 Harms, W. C., Fort Worth, Texas (42c)
 Harney, Chas. L., Inc., San Francisco, Calif. (4b)
 Harper & Florsheim, Shreveport, La. (17b)
 Harper, J. A., Crowville, La. (17g)
 Harper, L. F., Great Bend, Kans. (15b)
 Harper, W. L., Co., Cincinnati, Ohio (34b)
 Harr & Horton, Portland, Oreg. (36a)
 Harrel Bros., Marion, Ind. (13b)
 Harrington, Rex N., Tacoma, Wash. (46d)
 Harris Constr. Co., Faulkton, S. Dak. (40a)
 Harris Constr. Co., Inc., Fresno, Calif. (4a)
 Harris, E. L., & Son, Charleston, W. Va. (47a)
 Harris & Fjeldheim, Inc., Menlo Park, Calif. (4a)
 Harris, J. Henry, Berkeley, Calif. (4b)
 Harris, Leonard W., Charleston, W. Va. (47a)
 Harris-McBurney Co., Jackson, Mich. (21c)
 Harris, Sim J., Co., San Diego, Calif. (4c)
 Harrison Bros. Co., The, Tacoma, Wash. (46d)
 Harrison & Burrows, Inc., Jersey City, N. J. (31d)
 Harrison, C. H., Waco, Texas (42j)
 Harrison Construction Company, Pittsburgh, Pa. (N) (37c) (47a) (32a) (37b)
 Harrison Constr. Co., Maryville, Tenn. (41b)
 Harrison Constr. Co., The, Denver, Colo. (5b)
 Harrison, E. E., Corpus Christi, Texas (42i)
 Harrison Engr. & Constr. Corp., Kansas City, Mo. & Woodville, Texas (12c) (14a) (15b) (24b) (42f)
 Harrison, H. L., & Son, Inc., Westfield, N. J. (29a)
 Harrison, M. R., Constr. Corp., Miami, Fla. (9b)
 Hart Constr. Co., Tacoma, Wash. (46d)
 Hart & Hart, Providence, Ky. (13a)
 Hartford, R. R., Inc., Manchester, N. H. (28a)
 Harting, W. C., Constr. Co., St. Louis, Mo. (24c)
 Hartung Constr. Co., Inc., Tampa, Fla. (9c)
 Hartly Constr. Co., Boston, Mass. (20b)
 Harvey Constr. Co., El Monte, Calif. (4d)
 Harvey Constr. Co., Inc., Manchester, N. H. (28a)
 Harvey, Geo. R., & Son, Danville, Ind. (13a)
 Harvey, J. E., Johnson City, Tenn. (41c)
 Harvey, John J., Co., New Hartford, N. Y. (31d)
 Harvey, L. A., Jackson, Miss. (23b)
 Harvey & Rose, Arcadia, Calif. (4d)
 Harvie, Wm. H., Birmingham, Mich. (21c)
 Harwood Constr. Co., Newport News, Va. (45a)

A.G.C. DIRECTORY

- Haslebach, Henry & Sons, Inc., Clarksburg, W. Va. (47a)
- Hasler, M. H., Constr. Co., Santa Ana, Calif. (4d)
- Hasslen Constr. Co., Inc., Ortonville, Minn. (22a)
- Hathaway, E. A., & Co., San Jose, Calif. (4a)
- Haugen & Mark, Fergus Falls, Minn. (22a)
- Hauser Constr. Co., Portland, Oreg. (36a)
- Haverstick-Borthwick Co., Philadelphia, Pa. (37d)
- Havlik, John, Jr., Scappoose, Oreg. (36a)
- Hawkins & Armstrong, Seattle, Wash. (46a)
- Hawkins, H. H., & Sons Co., Newton, Mass. (20b)
- Hawkins, Neal, Gastonia, N. C. (32a)
- Haworth, Albert, Tampa, Fla. (9c)
- Hayes, Hal B., Constr. Co., Pasadena, Calif. (4d)
- Hayes, L. W., Inc., Kansas City, Mo. (15b) (24b)
- Hayes, R. E., Wilmington, N. C. (32a)
- Hayes & Watkins Constr. Co., Inc., Brockton, Mass. (20b)
- Hayne Engr. Co., Charleston, W. Va. (47a)
- Haynes, C. W., Co., Chicago, Ill. (12a)
- Haynes, Chas. C., Jr., Constr. Co., Inc., West Durham, N. C. (32a)
- Haynes, W. G., West Monroe, La. (17g)
- Haynsworth, T. B., Jr., Florence, S. C. (32a)
- Hays, A. L., & Son, Port Arthur & Houston, Texas (42h) (42d)
- Hays & Nicoulin, Louisville, Ky. (16b)
- Hazard, R. E., Constr. Co., San Diego, Calif. (4c)
- Hazelwood, Geo. F., Co., Inc., The, Cumberland, Md. (19b) (37c)
- Hazen & Clark, Spokane, Wash. (46e)
- Heald & Christler, Inc., Cody, Wyo. (25a)
- Healy, J. L., Constr. Co., Sioux Falls, S. Dak. (40a)
- Healy, John E., & Sons, Inc., Wilmington, Del. (7a)
- Healy, S. A., Company, White Plains, N. Y. (1)
- Heard, Jesse F., & Son, West Monroe, La. (17g)
- Heckendorf, F. A., Littleton, Colo. (5b)
- Heckman-Reynolds Co., Charles City, Iowa (14a)
- Hector Constr. Co., Inc., Hector, Minn. (22a) (40a)
- Hedahl-Martin Co., The, Redwood City, Calif. (4a)
- Hedcock, Wendell T., Denver, Colo. (5a)
- Hedin Constr. Co., Washington, D. C. (8a)
- Heffernan, J., Jr., Houston, Texas (42j)
- Hegeman-Harris Co., Inc., New York City (31c)
- Heidelberg, C. R., Jacksonville, Texas (42f)
- Heinemann, J. R., & Sons, Inc., Saginaw, Mich. (21b)
- Heintz, R. A., Constr. Co., Portland, Oreg. (36a)
- Heisler & Woods, El Monte, Calif. (4d)
- Helbig, A. S., Co., The, Akron, Ohio (34a)
- Heldenfels Bros., Corpus Christi, Texas (42f) (42j)
- Helmer, Stanley S., Grand Rapids, Minn. (22a)
- Helseth Engr. Co., St. Paul, Minn. (22a)
- Helwig Constr. Co., Sebastopol, Calif. (4b)
- Helwig, Fred R., Millersburg, Pa. (37a)
- Hembling, Charles B., & Son, Red Bank, N. J. (1)
- Henderson, David, & Son, Cleveland, Ohio (34c)
- Henderson, H. R., Co., Marshall, Texas (42f)
- Hendrich, W. F., Co., Inc., The, Buffalo, N. Y. (31a)
- Hendrick, C. L., & Sons, Waco, Texas (42L)
- Hendrick, David R., & Co., Waco, Texas (42L)
- Hendricks, Harold, Contr. Co., McAllen, Texas (42o)
- Hendrickson Bros., Inc., Valley Stream, N. Y. (31d)
- Hendry Bldg. Co., St. Petersburg, Fla. (9c)
- Henery, Harry, Inc., Ottawa, Kans. (15b)
- Henger Constr. Co., Dallas, Texas (42a) (42i)
- Henkel Constr. Co., Mason City, Iowa (14b)
- Hennessy, A. P., & Sons, Inc., St. Petersburg, Fla. (9c)
- Henning-Payne Constr. Co., Abilene, Texas (42f)
- Henrikson Constr. Co., Seattle, Wash. (46b)
- Henry, Frank J., Wisconsin Rapids, Wis. (48b)
- Henry & Hall, Dubach, La. (17e)
- Henryetta Constr. Co., Henryetta, Okla. (35b)
- Henshaw Bros., Portland, Oreg. (36a)
- Henson, W. J., Prescott, Ariz. (2a)
- Herbison Constr. Co., Brainerd, Minn. (22a)
- Herlihy Mid-Continent Company, Chicago, Ill. & Comstock, Mich. (1) (12a) (21b)
- Herman-Sipe & Co., Inc., Conover, N. C. (32a)
- Hermann Co., Los Angeles, Calif. (4d)
- Hermans Constr. Co., Ft. Dodge, Iowa (14b)
- Herr, Albert, Constr. Co., Webster, S. Dak. (40a)
- Herrick, G. G., Des Moines, Iowa (14a)
- Herrick, R. P., Co., Butte, Mont. (25a)
- Herrin, C. A., Durham, N. C. (32a)
- Herring, Geo. B., & Son, Mansfield, Ohio (34d)
- Herrman Constr. Co., Atlanta, Ga. (10a)
- Hersom, C. I., Laurens, Iowa (14b)
- Hertel & Deyo Co., Grand Rapids, Mich. (21c)
- Hertfelder, Wm., Inc., St. Louis, Mo. (24c)
- Herz, Geo., & Co., San Bernardino, Calif. (4d)
- Herz Paving Co., San Bernardino, Calif. (4d)
- Heslep, John C., Columbia, S. C. (32a)
- Hess, Marion J., Malad, Idaho (11a)
- Hesse, Chas. J., Inc., Belford, N. J. (29a)
- Hesser, L. J., Greeley, Colo. (49a)
- Hester, E. F., Greensboro, N. C. (32a)
- Heuser & Garnett, Phoenix, Ariz. (2a)
- Hew Constr. Co., Boston, Mass. (20b)
- Hewett, F. R., & Co., Parkwater, Wash. (46c)
- Hewitt, R. N., Charleston, W. Va. (47a)
- Hickey & Co., Dallas, Texas (42a)
- Hickory Constr. Co., Inc., Hickory, N. C. (32a)
- Hicks Co., The, Alma, Mich. (21c)
- Hicks Constr. Co., Waco, Texas (42L)
- Hicks, Fred E., Constr. Co., Knoxville, Tenn. (41b)
- Hicks, R. C., Charlotte, N. C. (32a)
- Higginbotham, A. G., Co., Charleston, W. Va. (47a)
- Higgins, R. T., Hot Springs, Ark. (3a)
- Higgins, V. B., Co., Greensboro, N. C. (32a)
- Higgison, Peyton, Mobile, Ala. (1a)
- Highland Co., Louisville, Ky. (16b)
- Higley, Albert M., Co., The, Cleveland, Ohio (34c)
- Hilde Constr. Co., Inc., Great Falls, Mont. (25a)
- Hill, Carl V., Greeley, Colo. (5b)
- Hill & Combs, San Antonio, Texas (42e)
- Hill Co., Inc., Oak Hill, W. Va. (47a)
- Hill, D. B., Little Rock, Ark. (3a)
- Hill, E. B., Sherman, Texas (42f)
- Hill, F. D., Constr. Co., Amarillo, Texas (42g)
- Hill, J. S., Constr. Co., Washington, N. C. (32a)
- Hill, John, Constr. Co., St. Louis, Mo. (24c)
- Hill, W. D., Constr. Co., Houston, Texas (42d)
- Hillier, Don, & Sons, Inc., Pahokee, Fla. (9e)
- Hillyer & Lovan, Jacksonville, Fla. (9a)
- Hilton & Carr, Ogden, Utah (43a)
- Hinchberger Constr. Co., Corpus Christi, Texas (42i)
- Hines, E. H., Constr. Co., Greenwood, S. C. (32a)
- Hinkle Contr. Co., Paris, Ky. (16a)
- Hinman, A. E., Corpus Christi, Texas (42i)
- Hinman Bros. Constr. Co., The, Denver, Colo. (5b)
- Hipskind Drainage Co., Fort Wayne, Ind. (13a)
- Hites, L. V., Co., Kansas City, Mo. (15b)
- Hitz Constr. Co., Billings, Mont. (25b)
- Hixson & Lehenbauer, Topeka, Kans. (15b)
- Hoagland-Findlay Engr. Co., Long Beach, Calif. & Seattle, Wash. (4b) (4d) (46a)
- Hoak Constr. Co., West Des Moines, Iowa (14a)
- Hoar, F. R., & Son, Inc., Birmingham, Ala. (1a)
- Hoback, L. E., Everett, Wash. (46a)
- Hobbs, E. L., Constr. Co., Denver, Colo. (5a)
- Hobe Engr. Co., Sioux City, Iowa (14a)
- Hobeck, J. W., Holland, Mich. (21c)
- Hodgdon, Edwin J., Mirror Lake, N. H. (28a)
- Hodges & Co., Inc., Anniston, Ala. (1a)
- Hodges Constr. Co., Oklahoma City, Okla. (35b)
- Hodges Constr. Co., Seattle, Wash. (46b)
- Hodgkiss & Douma, Petoskey, Mich. (21c)
- Hodgman, W., & Sons, Fairmont, Minn. (22a)
- Hodgson, R. B., & Co., Lubbock, Texas (42j)
- Hoeffken, M., Co. & Hoeffken Bros., Inc., Belleville, Ill. (12c) (12d)
- Hoepfner-Bartlett Co., Eau Claire, Wis. (48b)
- Hoffman, F., Co., Wilkesburg, Pa. (37b)
- Hoffman, L. H., Portland, Oreg. (36b)
- Hoffman, Lee, Portland, Oreg. (36a) (36b)
- Hoffman, Morris, Contr. Co., Kansas City, Mo. (24a)
- Hoffman, Ned B., Fort Worth, Texas (42f)

(Numerals after names indicate the Chapter in which member belongs—See Key to Listing of A. G. C. Units—page 217). N—National Member (page 315). L—Local Member.

- Hogan, Ben M., & Co., Little Rock, Ark. (3a)
Hogan Bros., Inc., New Orleans, La. (17a)
Hogan Co., The, Riverside, Calif. (4d)
Hohner, Carl, & Son, Spokane, Wash. (46c)
Hokanson & Bloom, Rockford, Ill. (12b)
Hoke Constr. Co., Stillwater, Okla. (35a)
Holderman, V. N., & Sons, Inc., Columbus, Ohio (34d) (37c)
Holdren Constr. Co., Mt. Vernon, Ill. (12c)
Holland Bros. Constr. Co., Inc., Decorah, Iowa (14a)
Holland, John G., Constr. Co., Houston, Texas (42j)
Holley, J. F., Birmingham, Ala. (1a)
Holloway Co., The, Albuquerque, N. Mex. (30b)
Holm Constr. Co., Glendive, Mont. (25b)
Holm-Page Co., The, Rockford, Ill. (12b)
Holmes Constr. Co., Heyburn, Idaho (11a)
Holmes Constr. Co., The, Wooster, Ohio (37c)
Holmes Corp., The, Glenshaw, Pa. (37b)
Holmes & English, West Englewood, N. J. (20a)
Holmes & Murphy, Orchard Park, N. Y. (31d)
Holmquist, F. E., Rockford, Ill. (12b)
Holt, H. W., & Son, Columbus, Ohio (34d)
Holt, Heenan, Graham, N. C. (32a)
Holtz, B. W., Houston, Texas (42d)
Holtze, H. S., Constr. Co., Sioux City, Iowa (14b)
Holzworth Constr. Co., Miles City, Mont. (25a)
Homann, A. G., Lacey, Wash. (46d)
Home Bldrs. Co., St. Cloud, Minn. (22a)
Homes of Tomorrow, Inc., Torrance, Calif. (4d)
Homewood, Roy M., Chapel Hill, N. C. (32a)
Honegger Bros. Constr. Co., Kingfisher, Okla. (35b)
Honnen, Ed. H., Denver, Colo. (5b)
Hood Constr. Corp., Lynwood, Calif. (4d)
Hooker Constr. Co., Waco, Texas (42L)
Hooks, C. F., Birmingham, Ala. (1a)
Hoops Constr. Co., Twin Falls, Idaho (11a)
Hope Bldg. Co., Inc., Providence, R. I. (38a)
Hopkins & McPherson, Laramie, Wyo. (49a)
Hopkins, Richard, Co., Albany, N. Y. (31d)
Hopper, A. J., Co., San Francisco, Calif. (4a)
Horman Constr. Co., Salt Lake City, Utah (43a)
Horn Bros., Inc., Boston, Mass. (20b)
Horn, Henry L., Moses Lake, Wash. (11a)
Horn's Crane Service, Denver, Colo. (5b)
Horner, A. S., Constr. Co., Denver, Colo. (5b)
Horner & Switzer, Denver, Colo. (5b)
Horrabin, Wm., Contr. Co., Iowa City, Iowa (14a)
Horst, Henry W., Co., Philadelphia, Pa. (37d)
Horster Constr. Co., Tulsa, Okla. (35a)
Horstmeyer, Wm., Co., San Francisco, Calif. (4a)
Hortie, R. J., San Diego, Calif. (4c)
Hospital Constrs., Inc., Pittsburgh, Pa. (37b)
Houge, R. S., Springfield, Mo. (24b)
Hough-Cowgur & Co., St. Louis, Mo. (23a) (24b)
Houghton Excavating Co., Beulah, Mich. (21c)
House, Henry, Lake Charles, La. (17c)
House, K. L., Constr. Co., Inc., Albuquerque, N. Mex. (30b)
Houser, T. F., Asheville, N. C. (32a)
Houska, J. R., Co., Inc., Norfolk, Va. (45a)
Houston Constr. Co., Houston, Texas (42m)
Howard Bros., Madisonville, Texas (42f)
Howard Constr. Co., Sedalia, Mo. (24b)
Howard Constr. Co., Inc., Greensboro, N. C. (32a)
Howard Constr. Co., Inc., Houston, Texas (42d)
Howard, G. F., Constr. Co., Inc., Canfield, Ohio (34d)
Howard-Mitchell Constr. Co., Richmond, Va. (45a)
Howe, T. D., Constr. Co., Inc., Houston, Texas (42d)
Howell, Jas. R., & Co., Denver, Colo. (5a)
Howes & Farrell, Inc., Oneida, N. Y. (31d)
Howie Constr. Co., Jackson, Miss. (23b)
Howland, Fred, Inc., Miami, Fla. (9b)
Hewton, W. C., Contr. Co., Birmingham, Ala. (1a)
Hoyt, Chas. H., Silverton, Oreg. (36a)
Hubbard Constr. Co., Orlando, Fla. (9c)
Hubbard Constr. Co., Inc., Houston, Texas (42d)
Hubbard Constr. Co. of S. C., Inc., Marion, S. C. (32a)
Hubbard, Roy, Constr. Co., Junction City, Kans. (15a)
Hubbard & Son, Turlock, Calif. (4a)
Hubbell, J. T., Constr. Co., Houston, Texas (42d)
Hubbell, O. W., New Hartford, N. Y. (31d)
Hubbell, S. W., Bldg. Co., The, Bridgeport, Conn. (6a)
Huber, Hunt & Nichols, Inc., Indianapolis, Ind. (13b)
Hubner, C. L., Co., Denver, Colo. (5b)
Huckaba & Sons Constr. Co., Mattoon, Ill. (12c)
Hucke, Clarence P., Co., Kansas City, Mo. (24a)
Hudgins, M. S., Salem, Va. (45a)
Hudson Constr. Co., Los Angeles, Calif. (4d)
Hudson River Constr. Co., Albany, N. Y. (31d)
Huenergard Elec. Co., Portland, Oreg. (36a)
Huettig, Schromm & Bennett, Palo Alto, Calif. (4b)
Hufeisen, C. Wm., Anchorage, Alaska (50a)
Hughes, Chas. T., Constr. Co., Oklahoma City, Okla. (35a)
Hughes Constr. Co., Newellton, La. (23a)
Hughes-Foulkrod Co., Philadelphia, Pa. (37d)
Hughes, H. D., Roswell, N. Mex. (30b)
Hughes, J. B., Brownsville, Texas (42o)
Hull, Clarence A., Dryden, Mich. (21c)
Hulme, Chas., Great Bend, Kans. (15b)
Humble & Humble, Monroe, La. (17g)
Hummel Constr., Inc., Cleveland, Ohio (34c)
Hunkin-Conkey Constr. Co., The, Cleveland, Ohio (34c) (37c)
Hunnicut, A. R., Co., New Castle, Ind. (13b)
Hunsicker, L. W., Co., Allentown, Pa. (37a)
Hunt Constr. Co., Steamboat Springs, Colo. (5b)
Hunt Constr. Co., Inc., North Durham, N. C. (32a)
Hunt, David M., Philadelphia, Pa. (37d)
Hunter Constr. Co., Ada, Okla. (35b)
Hunter, E. H., Jacksonville, Fla. (9a)
Hunter, Ralph H., Constr. Co., Hays, Kans. (15b)
Hunting, J. L., Co., The, Cleveland, Ohio (34c)
Huntington Bros., San Anselmo, Calif. (4b)
Hunzinger Constr. Co., Milwaukee, Wis. (48a)
Hurley, Gene, Constr. Co., St. Paul, Minn. (22a)
Hurricane Fence & Constr. Co., Houston, Texas (42d)
Hursey, Clinton, Constr. Co., East St. Louis, Ill. (12d)
Hutcheson Constr. Co., Inc., Denver, Colo. (5b)
Hutchinson, J. M., Sandyville, W. Va. (47a)
Hutter Constr. Co., Fond du Lac, Wis. (48b)
Hyde Constr. Co., Jackson, Miss. (23a)
Hyman, Geo., Constr. Co., The, Washington, D. C. (8a)
Hymans, John, & Sons, Hull, Iowa (14a)
Hyndman, Earle L., Boston, Mass. (20b)
- I
- Iber, C., & Sons, Peoria, Ill. (12a)
Idaho Constrs., Inc., Boise, Idaho (11a)
Ideson Co., Inc., The, Kirkwood, Mo. (24c)
Illinois Steel Bridge Co., Jacksonville, Ill. (12c)
Immel Co., Fond du Lac, Wis. (48b)
Immel, Lee J., San Pablo, Calif. (4b)
Ind. Chas., Co., Rockford, Ill. (12c)
Indenco, Oakland, Calif. (4a)
Independent Constr. Co., Oakland, Calif. (4b)
Independent Constr. Co., Overland Park, Kans. (15b)
Indiana Constr. Co., Inc., Fort Wayne, Ind. (13b)
Industrial Bldrs., Inc., Anderson, S. C. (32a)
Industrial Constr. Co., Detroit, Mich. (21a)
Industrial Constr. Co., Oklahoma City, Okla. (35a)
Industrial Constr. Co., The, Hartford, Conn. (6a)
Industrial Constrs., Denver, Colo. (5a)
Industrial Contr. Co., Minneapolis, Minn. (22a)
Industrial Engr. Co., New York City & Boston, Mass. (20b) (31c)
Industrial Engrs. & Contrs., Inc., Tacoma, Wash. (4b) (36b) (46d)
Industrial Engrs., Inc., Los Angeles, Calif. (4d)
Indy Constr. Co., Inc., Houston, Pa. (37c)
Inge-Hayman Constr. Co., Inc., Dallas, Texas (42a)
Ingram, W. K., Constr. Co., West Memphis, Ark. (23a)
Inland Asphalt Co., Spokane, Wash. (46c)
Inland Constr. Co., Wichita, Kans.; Omaha, Neb.; Cheyenne, Wyo. & Rapid City, S. Dak. (5b) (15b) (25a) (26b) (40a) (49a)
Inland Constr., Inc., Rosedale, Miss. (23a)
Inter-City Sand & Gravel Co., Inc., Eugene, Oreg. (36a)
Intercounty Constr. Corp., Hyattsville, Md. (19b)

A.G.C. DIRECTORY

Intermountain Bldrs., Inc., Caldwell, Idaho (11a)
Intermountain Plumbing Co., Boise, Idaho (11a)
International Chimney Corp., Buffalo, N. Y. (31a)
International Constr. Corp., Tampa, Fla. (9c)
Inter State Constr. Co., Kansas City, Mo. (24a)
Interstate Constr. Co., Charlotte, N. C. (32a)
Inwood Constr. Co., Dallas, Texas (42a)
Iowa Bridge Co., Des Moines, Iowa (14a)
Irish, E. A., Los Angeles, Calif. (4d)
Irmischer, Max, & Sons, Inc., Fort Wayne, Ind. (13b)
Irons & Reynolds, Inc., Washington, D. C. (8a)
Irwin, John, Constr. Co., Inc., The, Lockport, N. Y. (31d)
Irwin & Leighton, Philadelphia, Pa. & Washington, D. C. (8a) (37d)
Irwin, Robt. L., Memphis, Tenn. (41c)
Isackson, Geo., Co., Portland, Ore. (36b)
Isbell Constr. Co., Inc., Reno, Nev. & Santa Rita, N. Mex. (27a) (30a)
Istock, Nick, Aliquippa, Pa. (37c)
Ivey, Henry A., Inc., Atlanta, Ga. (10a)
Ivy Constr. Corp., Charlottesville, Va. (45a)
Izzi, Michael, Temple City, Calif. (4d)

J

J. & B. Constr. Co., Los Angeles, Calif. (4d)
J & J Constr. Co., Oklahoma City, Okla. (35a)
J. & K. Constr. Co., Denver, Colo. (5a)
J-P Constr. Co., The, Chicago Heights, Ill. (12c)
Jacks & Irvine, San Francisco, Calif. (4a)
Jackson, A. L., Co., Chicago, Ill. (12a)
Jackson & Brittain, Savannah, Ga. (10a)
Jackson Constr. Co., Emmetsburg, Iowa (14b)
Jackson, Geo. R., Co., The, Akron, Ohio (34a)
Jackson, John K., Ironwood, Mich. (21c)
Jacobs, M. C., Constr. Co., Luna, N. Mex. (5b)
Jacobs, M. J., & Sons, Bird Island, Minn. (22a)
Jacobs, S. S., & Co., Jacksonville, Fla. (9a)
Jacobsen, Carl J., Sharpsburg, Pa. (37c)
Jacobsen Constr. Co., Salt Lake City, Utah (43a)
Jacobsen, K. F., & Co., Inc., Portland, Ore. (36a)
Jacobson, Bert A., Co., Inc., Pittsburgh, Pa. (37c)
Jacobson, Con, Co., Marshalltown, Iowa (14b)
Jacobson, John, Co., The, Akron, Ohio (34a)
Jacobson, L. A., Pauls Valley, Okla. (15b)
Jacobucci, R. R., Inc., West Quincy, Mass. (20b)
Jaggard, R. B., Engr. Co., Westmont, N. J. (29a)
Jahnke Service, Inc., New Orleans, La. (23a)
James, Guy H., Constr., Oklahoma City, Okla. (35b)

James, T. L., & Co., Inc., Ruston, La. (L) (17e) (23a)
James & Yost, Inc., Portland, Ore. (36a)
Jameson, P. W., Constr. Co., Memphis, Tenn. (41c)
Jamison, E. J., Los Angeles, Calif. (4d)
Jansen & Schaefer, Pekin, Ill. (12c)
Jantelle, P., Inc., Newark, N. J. (L)
Jarbet Co., The, San Antonio, Texas (42f)
Jardine Bridge Co., Inc., Fargo, N. Dak. (33a)
Jarl, Vernie, Gresham, Ore. (36a)
Jarrell, L. L., Whistler, Ala. (1a)
Jarvick, E., Constr. Co., Detroit, Mich. (21c)
Jarvis-Courtney Corp., Clarksburg, W. Va. (47a)
Jarvis, Paul, Inc., Seattle, Wash. (46a)
Jayhawk Constr. Co., Inc., Topeka, Kans. (15a)
Jayhawk Constr. Co., Inc., The, Great Bend, Kans. (42m)
Jefferson Asphalt Co., Inc., Mt. Vernon, Ill. (12c)
Jeffress-Dyer, Inc., Washington, D. C. (8a)
Jeffries Constr. Co., Mankato, Minn. (22a)
Jenkins Bros. Constr. Co., Raleigh, N. C. (32a)
Jenkins, M. A., & R. E. Hertel, Sacramento, Calif. (4b)
Jenks, Paul I., Grass Valley, Calif. (4a)
Jennings, J. D., Co., Louisville, Ky. (16b)
Jensen, A., New Orleans, La. (17a)
Jensen Bros., Salt Lake City, Utah (43a)
Jensen, Chris, Co., St. Paul, Minn. (22a)
Jensen Constr. Co., Des Moines, Iowa (14a)
Jensen Constr. Co., Minneapolis, Minn. (22a)
Jensen & Krage, Sioux City, Iowa (14a)
Jensen, R. M., Constr. Co., Salt Lake City, Utah (43a)
Jensen, Viggo M., Co., Albert Lea, Minn. (22a)
Jenson & Ridge Constr. Co., Wichita, Kans. (15a)
Jentoft & Forbes, Seattle, Wash. (46b)
Jerome Constr. Co., Savannah, Ga. (10a)
Jesse, Frank, Amarillo, Texas (42g)
Jesse, Walter A., Akron, Ohio (34a)
Jimison, C. H., Huntington, W. Va. (47a)
Jobst, V., & Sons, Peoria, Ill. (L)
Johns Bros. Constr. Co., Inc., Binghamton, N. Y. (31d)
Johns Engr. Co., Denver, Colo. (5a)
Johnson, A. C., & Sons, Eureka, Calif. (4b)
Johnson, A. W., Co., Inc., Seattle, Wash. (46a)
Johnson, Al, Helena, Mont. (25b)
Johnson, Al Construction Co., Minneapolis, Minn. (N) (22a)
Johnson Bros. Constr. Co., Salina, Kans. (15a)
Johnson, C. O., Constr. Co., Minneapolis, Minn. (22a)
Johnson, Chas. B., & Sons, Chicago, Ill. (12a)
Johnson Constr. Co., Tucson, Ariz. (2a)
Johnson Constr. Co., Litchfield, Minn. (22a)
Johnson Constr. Co., Winona, Minn. (22a)
Johnson, Drake & Piper, Inc., Minneapolis, Minn.; New York, N. Y.; Oakland, Calif. & Terre Haute, Ind. (4a) (22a) (31d) (13b) (37c) (29a)
Johnson, Ed, Waco, Texas (42L)

Johnson Engr. & Constr. Co., Storm Lake, Iowa (14b)
Johnson, G. C., Co., Welch, W. Va. (47a)
Johnson & Geddes, Fayetteville, N. C. (32a)
Johnson, Geo. D., Co., Peoria, Ill. (12a)
Johnson-Gillanders Co., Grand Forks, N. Dak. (33a)
Johnson-Greene Co., Ann Arbor, Mich. (21c)
Johnson, H. W., South Sioux City, Nebr. (26b) (40a)
Johnson-Hearn Constr. Co., Jackson, Tenn. (41c)
Johnson & Henrickson, Racine, Wis. (48b)
Johnson, I. M., Bozeman, Mont. (25b)
Johnson, J. Walter, Los Angeles, Calif. (4d)
Johnson, John A., & Sons, Inc., Washington, D. C. & Atlanta, Ga. (8a) (10a)
Johnson & Johnson Constr. Co., Rome, Ga. (10a)
Johnson, Jos. E., & Son, St. Paul, Minn. (22a)
Johnson, L. T., Ogden, Utah (43a)
Johnson, Le Grand, Logan, Utah (43a)
Johnson, M. L., Cedar Rapids, Iowa (14a)
Johnson & Nelson, San Anselmo, Calif. (4b)
Johnson, Richard, Co., Hartford, Conn. (6a)
Johnson, S. E., Co., The, Maumee, Ohio (34d)
Johnson, W. L., Construction Co., Hicksville & Columbus, Ohio (N) (34d) (37c)
Johnson, Walter S., Bldg. Co., Inc., Niagara Falls, N. Y. (31a)
Johnson Western Constr., San Pedro, Calif. (4d)
Johnson & Willard, Knoxville, Tenn. (41b) (41e)
Johnston, A. P., Baton Rouge, La. (17e)
Johnston, Maynard, & Co., Atlanta, Ga. (10a)
Johnston, Wagner, Constr. Co., Sioux City, Iowa (14a)
Joliet Bridge & Constr. Co., Joliet, Ill. (12c)
Jones, A. Berney, Montgomery, Ala. (1a)
Jones Bros., Beverly Hills, Calif. (4d)
Jones Bros. & Co., Wilson, N. C. (32a)
Jones & Buchanan, Baton Rouge, La. (23a)
Jones Constr. Co., Denver, Colo. (5b)
Jones, D. F., Constr. Co., Little Rock, Ark. (3a)
Jones, Dolph, Tacoma, Wash. (46d)
Jones, E. B. & A. A., Denver, Colo. (5a)
Jones & Hezlep, Denver, Colo. (5a)
Jones, I. L., Beaumont, Texas (42h)
Jones, J. A., Constr. Co., Inc., Charlotte, N. C.; Atlanta, Ga. & Shreveport, La. (10a) (32a) (17a) (17b)
Jones, J. Lawrence, Dallas, Texas (42a)
Jones, J. O., Constr. Co., Houston, Texas (42d)
Jones, Jiroud, & Co., Atlanta, Ga. (10a)
Jones-Kissner Constr. Co., St. Louis, Mo. (24c)
Jones, L. S., & Sons, Inc., Racine, Wis. (48b)
Jones, Lew, Constr. Co., San Jose, Calif. (4b)
Jones, Lewis P., San Jose, Calif. (4a)
Jones, O. C., & Sons, Berkeley, Calif. (4b)
Jones, R. J., & Sons, Alexandria, La. (17f)
Jones, S. K., Constr. Co., Memphis, Tenn. (23a)
Jones, W. B., Palo Cedro, Calif. (4b)
Jones, W. Boyd, Co., Omaha, Nebr. (26a)

(Numerals after names indicate the Chapter in which member belongs—See Key to Listing of A. G. C. Units—page 217). N—National Member (page 315). L—Local Member.

Jones & Williams Constr. Co., Waco, Texas (42L)
 Jordan Constr. Co., Jackson, Miss. (23b)
 Jordan Constr. Co., Hensel, N. Dak. (33a)
 Jorgensen, O., & Sons, Clinton, Iowa (14b)
 Jorstad, John, Sioux City, Iowa (14b)
 Joslin, C. W., & Son, Spokane, Wash. (46c)
 Joyce Bros. Constr. Co., Springfield, Ill. (12c)
 Joyce, Leon, Rochester, Minn. (22a)
 Juerling, Vincent H., & Sons, Richmond, Ind. (13b)
 Julian, Jas., Constr. Co., Wilmington, Del. (7a)
 Julian, John, Constr. Co., Wilmington, Del. (7a)
 Juneau, L. P., Alexandria, La. (17f)
 Jungclaus, Wm. P., Co., Inc., Indianapolis, Ind. (13b)
 Jurgensen, John R., Newtown, Ohio (34b)
 Jussel, Joe A., Bellingham, Wash. (46a)
 Justice-Dunn Co., Oakland, Calif. (4b)
 Jutton-Kelly Co., Dearborn, Mich. (21a) (21c)

K

K-M Constr. Co., Dubuque, Iowa (14b)
 Kahl & Mahon, Liberty, Ind. (13a)
 Kahn, M. B., Constr. Co., Columbia, S. C. (32a)
 Kaime, R. W., Santa Barbara, Calif. (4d)
 Kaiser-Ducett Co., Chicago, Ill. (12a)
 Kaiser, E. A., Co., Inc., Beverly Hills, Calif. (4d)
 Kaiser Engrs., Div. of Kaiser Inds., Inc., Oakland, Calif. (4b) (4d)
 Kalkman, Neil & Al, Constr. Co., Holland, Mich. (21c)
 Kane, Geo. W., Durham, N. C. (32a)
 Kansas City Bridge Company, Kansas City, Mo.; Lake Charles & Plaquemine, La. (N) (24b)
 Kaplan Constr. Co., Lafayette, La. (17f)
 Kaser Constr. Co., West Des Moines, Iowa (14a)
 Kathman, Herman, Seattle, Wash. (46a)
 Kaucher, Walter, Los Angeles, Calif. (4d)
 Kaufman Constr. Co., Inc., Philadelphia, Pa. (29a)
 Kaufman, J. E., Kearney, Nebr. (26a)
 Kaufmann, W. J. C., Co., Detroit, Mich. (21a)
 Kaw Paving Co., Inc., Topeka, Kans. (15b)
 Kaylor, John R., Gastonia, N. C. (32a)
 Kaysner Constr. Co., Sault Ste. Marie, Mich. (21d)
 Kea, Silas S., & Sons, Ivor, Va. (45a)
 Kealy Constr. Co., Hastings, Nebr. (26a)
 Keaton Constr. Co., Little Rock, Ark. (3a)
 Kebbe, Ray, Warren, Mich. (21c)
 Keck, G. E., Fairview, Okla. (35b)
 Keeble, Edw., San Jose, Calif. (4b)
 Keefer, E. H., & Son, Philadelphia, Pa. (37d)
 Keeley Bros. Constr. Co., East St. Louis, Ill. (12c) (12d)
 Keeley, John J., East St. Louis, Ill. (12d)
 Keeley, Jos. P., Constr. Co., East St. Louis, Ill. (12c) (12d)
 Kehe Constr. Co., Waverly, Iowa (14a)
 Keil & Peterman Co., Juneau, Alaska (50a)
 Keim Constr. Co., Tecumseh, Nebr. (26b)
 Kelleher Corp., Turners Falls, Mass. (31d)

Keller Constr. Corp., New Orleans, La. (17a) (17e)
 Kelley Bros., Sacramento, Calif. (4b)
 Kelley & Meyer Co., The, Youngstown, Ohio (37c)
 Kelley-Nelson Constr. Co., Little Rock, Ark. (3a)
 Kelley & Peletz, San Francisco, Calif. (4a)
 Kelley-Wood Co., The, New Haven, Conn. (6a)
 Kelliher, Jas. S., Quincy, Mass. (20b)
 Kelly, C. A. & R. J., Kansas City, Mo. (24a)
 Kelly Constr. Co., San Antonio, Texas (42f)
 Kelly-Generes Constr. Co., New Orleans, La. (17a)
 Kelly, J. A., Co., Nashville, Tenn. (41d)
 Kelly, John F., Terre Haute, Ind. (13a)
 Kelly, Jos. F., Co., The, West Haven, Conn. (6a)
 Kelly, Ray R., & Co., Tacoma, Wash. (46d)
 Kelton, John C., & Son, Phoenix, Ariz. (2a)
 Kemmer, A. E., Lafayette, Ind. (13b)
 Kemp Bros., Los Angeles, Calif. (4d)
 Kemper Constr. Co., Los Angeles, Calif. (4d)
 Kenaston & Huntley, Lewiston, Idaho (46e)
 Kendall Constr. Co., Tacoma, Wash. (46d)
 Kenhill Constr. Co., Charleston, W. Va. (47a)
 Kennedy, John, & Co., New York City (31c)
 Kenney, Frank M., Denver, Colo. (5a) (5b)
 Kenney, Jas. B., Inc., Denver, Colo. (5a) (5b)
 Kentucky-Virginia Stone Co., Middlesboro, Ky. (16a)
 Kenworthy, C. V., Stockton, Calif. (4b)
 Kenyon, E. C., Jacksonville, Fla. (9a)
 Kenyon, Worth D., Constr. Co., Inc., Raleigh, N. C. (32a)
 Kepp, W. A., & Sons Co., Orange City, Iowa (14b)
 Kern & Kibbe, Portland, Oreg. (36a)
 Kerns, G. E., Constr. Co., Long Beach, Calif. & Phoenix, Ariz. (4d) (2a)
 Kero, Peter W., Inc., Lyndhurst, N. J. (29a)
 Kerr Engr. & Constr. Co., Kilgore, Texas (42n)
 Kershaw, C. G., Constr. Co., Birmingham, Ala. (1a)
 Ketell Constr. Co., Portland, Oreg. (36a)
 Ketner Bros., Tacoma, Wash. (46d)
 Kettelhut, K. H., Lafayette, Ind. (13b)
 Kevry Constr., Inc., San Leandro, Calif. (4b)
 Keys, Clyde J., St. Petersburg, Fla. (9c)
 Keyser, Leon, Co., Manchester, N. H. (28a)
 Kidde, Walter, Constrs., Inc., New York City & Houston, Texas (17a) (31c) (37d) (42d)
 Kielen & Sons, Ishpeming, Mich. (21d)
 Kiely Constr. Co., Butte, Mont. (25a)
 Kier, W. E., Constr. Co., San Diego & El Segundo, Calif. (4c) (4d)
 Kies, Geo., Austin, Texas (42f)
 Kiewit, Peter, Sons' Co., Omaha, Nebr.; Sheridan, Wyo.; Arcadia & Shafter, Calif.; Denver, Colo.; Rapid City, S. Dak.; Albuquerque, N. Mex.; Wichita, Kans.; Seattle & Longview, Wash.; Jefferson Barracks, Mo. & Oklahoma City, Okla. (4b) (4d) (5a) (5b) (14a) (15b) (25a) (26a) (26b) (30b) (36a) (40a) (49a) (50a) (24c) (46a) (46c) (35b)

Kiker & Yount, Inc., Reidsville, N. C. (32a)
 Killian, M. B., & Co., San Antonio, Texas (42f)
 Killman, Kile, Constr. Co., Inc., Grenada, Miss. (23a)
 Kimsey, Bill, Constr. Co., Pryor, Okla. (35b)
 King-Hoover Constr. Co., Phoenix, Ariz. (2a)
 King-Hunter, Inc., Greensboro, N. C. (32a)
 King, J. M., Baton Rouge, La. (17d)
 King, M. J., Inc., San Francisco, Calif. (4a)
 King-North Constr. Co., Jackson, Miss. (23b)
 King, Robt. H., Danville, Ind. (13a)
 King, Winter, & Son, Beaumont, Texas (42h)
 Kingery Constr. Co., Lincoln, Nebr. (26a)
 Kingsolver, Arthur E., Bristol, Va. (41e)
 Kinnare Corp., The, Chicago, Ill. (12a)
 Kirchhof, F. J., Constr. Co., Denver, Colo. (5a)
 Kirk, R. V., Gibbon, Nebr. (26b)
 Kirkpatrick Constr. Co., Milwaukie, Oreg. (36a)
 Kirkpatrick, R. F., & Sons, Burlington, N. C. (32a)
 Kirkwood Constr. Co., Kirkwood, Mo. (24b)
 Kissick & Son Constr. Co., Hickman Mills, Mo. (24b)
 Kitchell-Phillips Contrs., Inc., Phoenix, Ariz. (2a)
 Kitchens, Rex D., Constr. Co., Austin, Texas (42k)
 Kitchingham, J. D., & Son, Columbia, La. (17f)
 Kitzmann Constr. Co., Keokuk, Iowa (14a)
 Kiziah, J. H., Hickory, N. C. (32a)
 Klarquist, John A., Los Angeles, Calif. (4d)
 Klaver & Wallace, Kingman, Kans. (15b)
 Klefman, H. E., Co., The, Cleveland, Ohio (34c)
 Klehr, L. M., Constr. Co., Inc., Minneapolis, Minn. (22a)
 Kleinsmid Constr. Co., Bakersfield, Calif. (4d)
 Kline, Boyd H., Bloomsburg, Pa. (37a)
 Kline & Schmidt, Monaca, Pa. (37c)
 Klinger, W. A., Co., Sioux City, Iowa (14b)
 Klise Constr., Bettendorf, Iowa (14b)
 Klopfer Constr. Co., Logan, Utah (43a)
 Klopfer & Gramkow, Boise, Idaho (11a)
 Kloster Co., St. Louis, Mo. (24c)
 Klug & Smith Co., Milwaukee, Wis. (48a)
 Knapp & East, Lake Charles, La. (17c)
 Knapp, Walter, Monroe, Mich. (21c)
 Knight, Inc., Reidsville, N. C. (32a)
 Knight, L. H., Co., Little Rock, Ark. (3a)
 Knisely-Moore Co., Douglas, Wyo. (49a)
 Knoop, J. K., Constr. Co., Kansas City, Mo. (24a)
 Knowles, John B., Wenatchee, Wash. (46a)
 Knudsen, Carl M., & Co., Minot, N. Dak. (33a)
 Knudson, Wm., & Sons, Des Moines, Iowa (14b)
 Knupp Constr. Co., Inc., Great Bend, Kans. (42m)
 Knuth, E. C., & Co., Milwaukee, Wis. (48a)
 Knutson Constr. Co., Minneapolis, Minn. (22a)
 Knutson Constr. Co., Houston, Texas (42d)
 Knutson-Could Constr. Co., Kansas City, Mo. (24b)

A.G.C. DIRECTORY

Koch-Schroeder Constr. Co., St. Joseph, Mo. (24a)

Koehler, A. S., Houston, Texas (42j)

Koller Constr. Co., Oklahoma City, Okla. (42j)

Koller, Stanley H., Crockett, Calif. (4b) (4d)

Kolob Constr. Co., Phoenix, Ariz. (2a)

Kolyn Constr. Co., Trenton, N. J. (29a)

Konen, J. F., Constr. Co., Lewiston, Idaho (46c)

Koppers Co., Inc., Metal Prods. Div., Baltimore, Md. (19a)

Korshoj Constr. Co., Blair, Nebr. (26a)

Korte Constr. Co., The, Cincinnati, Ohio (34b)

Koski Constr. Co., The, Ashtabula, Ohio (34d)

Koss Construction Company, Des Moines, Iowa (N) (14a) (15b) (24b)

Kraft & Newell, Florence, S. C. (32a)

Krahl Constr. Co., Chicago, Ill. (12a)

Kramme, C. J., Ft. Dodge, Iowa (14b)

Kramme, E. A., Co., Inc., Des Moines, Iowa (14a)

Kranz, M., Engr. & Constr. Co., New York, N. Y. (31d)

Krapf, Frederic G., Wilmington, Del. (7a)

Kraus-Anderson, Inc., Minneapolis, Minn. (22a)

Kraus-Anderson of St. Paul Co., St. Paul, Minn. (22a)

Kraus, Samuel Co., St. Louis, Mo. (24b) (24c)

Krebbay Constr. Co., Indianapolis, Ind. (13b)

Krehbiel-Stalker Constr. Co., Columbia, Mo. (24b)

Kretz, John H., Washington, Ind. (13b)

Krieg, J. E., & Sons, Fargo, N. Dak. (33a)

Krill, Leonard H., Co., The, Cleveland, Ohio (34c)

Kroeger, Harry W., Erection Co., St. Louis, Mo. (24c)

Kroening Engr. Corp., Milwaukee, Wis. (48a)

Kroetz, Wilbur L., Inc., Ft. Lauderdale, Fla. (9b)

Krumdieck, Leo, Chicago, Ill. (12a)

Krummel, Paul, Shrewsbury, Mo. (24c)

Kruzick, Geo., Constr. Co., Winamac, Ind. (13a)

Kucharo & Assos., Inc., Des Moines, Iowa (14b)

Kucharo Constr. Co., Des Moines, Iowa (14a) (14b)

Kuckenberg Constr. Co., Portland, Oreg. (36a)

Kuhlman, Leo E., Inc., Detroit, Mich. (21a)

Kuhn Constr. Co., Charleston, W. Va. (47a)

Kuhne-Simmons Co., Inc., Detroit, Mich. (21a)

Kuhns, J. A., Constr. Co., Long Beach, Calif. (4d)

Kuljian Corp., Philadelphia, Pa. (37d)

Kuney, Johnson Co., Seattle, Wash. (46b)

Kuney, Max J., Co., Spokane, Wash. (25a) (46c) (50a)

Kutchins & Brayton Co., Lansing, Mich. (21b)

Kutsche, A. W., & Co., Detroit, Mich. (21a)

Kyburz Constr. Co., Aberdeen, S. Dak. (L)

L

L. A. Paving Co., Los Angeles, Calif. (4d)

L & M Constr. Co., Memphis, Tenn. (41c)

LaBarge Bros. Co., Inc., Syracuse, N. Y. (31d)

Laburnum Constr. Corp., Richmond, Va. (45a)

Lackey, Chester T., Redmond, Oreg. (36a)

Lacy, L. H., Co., Dallas, Texas (42f)

Laessle Bldrs., Inc., Philadelphia, Pa. (37d)

Lafayette Constr. Co., North Hampton, N. H. (28a)

La Fond, Marcel, Little Falls, Minn. (22a)

La Fountain, A. A., Inc., Hackensack, N. J. (L)

Lake Bros. Constr. Co., Effingham, Ill. (12c)

Lake, D. M., Constr. Co., Shelbyville, Ill. (12c)

Lalonde, Albert, Co., Sidney, Mont. (25a)

Lamb, L. W., Co., Holland, Mich. (21c)

Lamb, Robt. E., & Son, Inc., Philadelphia, Pa. (37d)

Lambert Constr. Co., Seattle, Wash. (46b)

Lambert, M. T., Co., Atlanta, Ga. (10a)

Lambeth Constr. Co., Greensboro, N. C. (32a)

Lambie, C. S., & Co., Amarillo, Texas (42g)

Lametti & Lametti, Inc., St. Paul, Minn. (22a)

Lamkin Bros. Constr. Co., Alexandria, La. (17f)

Land Constr. Co., St. Joseph, Mo. (15b) (24b)

Landau Bros. Bldg. Co., Pittsburgh, Pa. (37b)

Landt, H. R., Oklahoma City, Okla. (35b)

Lane Constr. Corp., The, Meriden, Conn. (31d)

Lane, E. V., Co., Palo Alto, Calif. & Anchorage, Alaska (4b) (50a)

Lane, Richard M., Los Angeles, Calif. (4d)

Lang Constr. Co., Inc., Hampton, Va. (45a)

Langenderfer, Arthur S., & Co., Toledo, Ohio (34d)

Langenfelder, C. J., & Son, Inc., Baltimore, Md. (19b) (37c)

Langston Constr. Co., Inc., Orlando, Fla. (9c)

Larkin, Frank J., Constr. Co., Philadelphia, Pa. (37d)

Larsen, A. A., Phoenix, Ariz. (2a)

Larsen, B. O., San Diego, Calif. (4c)

Larsen, C. A., San Diego, Calif. (4c)

Larsen, C. C., & Sons, Council Bluffs, Iowa (14b)

Larsen, Chris, Co., New Orleans, La. (17a)

Larsen Constr. Co., Seattle, Wash. (46b)

Larsen Constr. & Engr. Co., Ogden, Utah (43a)

Larsen, Ira H., Co., San Francisco, Calif. (4a)

Larsen & Larsen, Inc., San Francisco, Calif. (4a)

Larson, Algot B., Inc., Chicago, Ill. (12a)

Larson Constr. Co., Pelican Rapids, Minn. (22a)

Larson-Danielson Constr. Co., Inc., La Porte, Ind. (13b)

Larson, Elmer, Inc., DeKalb, Ill. (12c)

Larson, John W., Bismarck, N. Dak. (33a)

Larson, Norman L., Austin, Texas (42f)

Larson, O. F., & Son, Tacoma, Wash. (46d)

LaSalle Constr. Co., Chicago, Ill. (12a)

Lastinger Home Bldrs., Inc., Tampa, Fla. (9c)

Latham Constr. Co., West Palm Beach, Fla. (9c)

Lathrop, Geo. W., & Sons, Inc., Toledo, Ohio (34e)

Latimer & Rabalais, Alexandria, La. (17f)

Latrobe Constr. Co., Latrobe, Pa. (37c)

Latta, J. E., Constr. Co., Inc., St. Louis, Mo. (12d) (24b) (24c)

Laub Constr. Co., Inc., Philadelphia, Pa. (37d)

Lauch, C. B., Constr. Co., Boise, Idaho (11a) (46c)

Laundry & Son, Inc., Toledo, Ohio (34d)

Laur & Mack Constr. Co., Inc., Niagara Falls, N. Y. (31a)

Laurence, Paul A., Co., Minneapolis, Minn. (22a)

Lauter Constr. Co., Philadelphia, Pa. (37d)

Lavender Bros., Earl, N. C. (32a)

Law Bros. Co. & A. J. Leaf, Herkimer, N. Y. (31d)

Lawless & Alford, Inc., Austin & Corpus Christi, Texas (42i) (42k)

Lawrence Constr. Co., Denver, Colo. (5b)

Lawrence Constr. Co., Inc., Baltimore, Md. (19a)

Laxton Constr. Co., Inc., Charlotte, N. C. (32a)

Layman & Co., Tulsa, Okla. (35b)

Layne-Texas Co., Ltd., The, Dallas & Houston, Texas (42j)

Leach Bros., Buffalo, Wyo. (49a)

Leach, G. H., Co., Inc., The, Bellefontaine, Ohio (34d)

Lease & Leigland, Seattle, Wash. (25a) (46b)

Leavell, C. H., & Co., El Paso, Texas (L)

Lebeck & Co., Minneapolis, Minn. (22a)

LeBlanc Bros., Baton Rouge, La. (17e)

LeBlanc, Inc., Houston, Texas (42d)

Leck, D'Arcy, Constr. Co., Minneapolis, Minn. (22a)

Leck, Jas., Co., Minneapolis, Minn. (22a)

Lecountour Constr. Co., St. Louis, Mo. (24c)

Lee Constr. Co., San Leandro, Calif. (4b)

Lee Constr. Co., Charlotte, N. C. (32a)

Lee Constr. Co., Memphis, Tenn. (41c)

Lee, Edd, Reno, Nev. (27a)

Lee, Frank H., & Co., West Memphis, Ark. (41c)

Lee, J. Gordon, New Orleans, La. (17a)

Lee & Johnson, Sioux City, Iowa (26b)

Lee, L. S., & Son, Oaks Corners, N. Y. (31d)

Lee & Neal, Santa Barbara, Calif. (4d)

Lee, R. E., & Son, Inc., Charlottesville, Va. (45a)

Lee, Ray M., Co., Atlanta, Ga. (10a)

Lee, Robt., Inc., Manning, S. C. (32a)

Lee, T. H., Corpus Christi, Texas (42j)

Leffler, A. S., Gravel Co., Davison, Mich. (21c)

Lehman-Roberts Co., Lexington, Ky. (16a)

Lehr Constr. Co., St. Joseph, Mo. (L)

(Numerals after names indicate the Chapter in which member belongs—See Key to Listing of A. G. C. Units—page 217). N—National Member (page 315). L—Local Member.

- Leighton, H. N., Co., Minneapolis, Minn. (22a)
 Leimbach Constr. Corp., Baltimore, Md. (19a)
 LeMay, Ralph B., Weslaco, Texas (42o)
 Lemcke Constr. Co., Inc., Albuquerque, N. Mex. & Las Vegas, Nev. (27b) (30b)
 Lemoine, S. J., & Co., Bunkie, La. (17f)
 Lemon, Haskell, Oklahoma City, Okla. (35b)
 Lena, Nat, Oakland, Calif. (4a)
 Lenci, Lenci & Englund, Inc., Virginia, Minn. (22a)
 Lentz Constr. Co., Sacramento, Calif. (4b)
 Lentz, John P., Dallastown, Pa. (37a)
 Leonard Constr. Co., Chicago, Ill. (12a)
 Leonard Constr. Co., Saginaw, Mich. (21c)
 Leonard & Slate Oregon, Ltd., Portland, Oreg. (36a)
 Leone, Domenic, Constr. Co., Inc., Trinidad, Colo. (5b)
 Leonhard, J. T., Constr. Co., Columbus Junction, Iowa (14a)
 Leslie, C. E., Kingsville, Texas (42i)
 Leslie, John T., Waxahachie, Texas (42f)
 Leto Constr. Co., Detroit, Mich. (21a)
 Levasseur, A. J., Constr. Co., Shreveport, La. (17b)
 Lewis, Anthony, Inc., Maplewood, N. J. (1)
 Lewis & Bowman, Goldsboro, N. C. (32a)
 Lewis, C. L., Lynchburg, Va. (45a)
 Lewis Constr. Co., Anchorage, Alaska (50a)
 Lewis Constr. Co., Great Falls, Mont. (25a)
 Lewis & Frisinger Co., The, Ann Arbor, Mich. (21c)
 Lewis & Lewis, Fort Worth, Texas (42c)
 Lewis & McDowell, Inc., New York, N. Y. (31d)
 Lewis, Nelson T., Hayward, Calif. (4a)
 Lewis, P. R., Huntington, W. Va. (47a)
 Lewis, R. C., Constr., Inc., Oakland, Calif. (4a)
 Libbey & Libby Co., Minneapolis, Minn. (22a)
 Liberty Bldg. Co., Santa Monica, Calif. (4d)
 Lichtfeld, Fred J., & Son, Louisville, Ky. (16b)
 Lien, C. H., Constr. Co., Inc., Rapid City, S. Dak. (40a)
 Lien, Chris S., Co., Holdrege, Nebr. (26a)
 Lillebo, Tom, Reedsport, Oreg. (36a)
 Lilly, Roy M., Mansfield, La. (17e)
 Linbeck Constr. Corp., Houston, Texas (42d) (42i)
 Lincoln Bldrs., Ruston, La. (17g)
 Lincoln, Martin P., Co., Chicago, Ill. (12a)
 Lind, Geo. W., Portland, Oreg. (36a)
 Lindberg, A., & Sons, Ishpeming, Mich. (21c)
 Lindekugel & Sons Road Constr. Co., Spencer, S. Dak. (40a)
 Linden & Sons, Inc., Rockford, Ill. (12b)
 Lindgren & Swinerton, Inc., Los Angeles, Calif. (4d)
 Lindsey, J. W. B., Co., Chattanooga, Tenn. (41a)
 Lindstrom & Anderson, St. Paul, Minn. (22a)
 Lindstrom Bros., Inc., Portland, Oreg. (36a)
 Lindstrom & Swanson, Inc., Akron, Ohio (34a)
 Lindstrom & Williams, Denver, Colo. (5b)
 Linebarger Constr. Co., Little Rock, Ark. (3a)
 Lineberry Bldg. Contrs., Santa Fe, N. Mex. (30b)
 Lines Co., The H. Wales, Meriden, Conn. (6a)
 Lininger, M. C., & Sons, Medford, Oreg. (36a)
 Linker, Wm., Co., Inc., Philadelphia, Pa. (37d)
 Linnan, W. B., Pocatontos, Iowa (14a)
 Lippert Bros., Inc., Boone, Iowa & Oklahoma City, Okla. (14a) (14b) (35a)
 Lippert Constr. Co., Oelwein, Iowa (14b)
 Lipscomb, Wm. P., Co., Inc., Washington, D. C. (8a)
 Lissenden, P. C., Co., Inc., West Palm Beach, Fla. (9e)
 List, C. J., Constr. Co., Kansas City, Mo. (23a) (24b)
 List & Clark Construction Company, Kansas City, Mo. (N) (15b) (24b)
 List & Weatherly Constr. Co., Kansas City, Mo. (24b) (15b)
 Litchfield Constr. Co., San Rafael, Calif. (4a)
 Little Constr. Co., Inc., Charlotte, N. C. (32a)
 Little, I. C., Dallas, Texas (42m)
 Little, Matthew A., San Francisco, Calif. (4a)
 Little Rock Bldrs., Inc., Little Rock, Ark. (3a)
 Lively, Ed., Constr. Co., Farmington, N. Mex. (5b)
 Lockhart, H. L., Houston, Texas (42d)
 Lockhart & Warren, Inc., Houston, Texas (42d)
 Lockwood, C. W., Hampton, Va. (45a)
 Lockwood, L. V., Glasgow, Mont. (25a)
 Lof, John, & Sons, Omaha, Nebr. (26a)
 Logan, W. E., & Sons, Muskogee, Okla. (35b)
 Logan-Walter Constr. Co., Belleville, Ill. (12d)
 Logue, Chas., Bldg. Co., Boston, Mass. (20b)
 Lohmann, H. R., Co., Tulsa, Okla. (35a)
 Long Constr. Co., Billings, Mont. (25a)
 Long Construction Company, Kansas City, Mo. (N) (24a)
 Longhi, Louis, & Son, Glens Falls, N. Y. (31d)
 Longley Constr. Co., Inc., Las Vegas, Nev. (27b)
 Loomis Bros., Cedar Rapids, Iowa (14b)
 Loomis, C. M., Grand Rapids, Mich. (21c)
 Loranger, Theo., & Sons, New Bedford, Mass. (20b)
 Lorber, Melvin, Los Angeles, Calif. (4d)
 Lord & Bishop, Sacramento, Calif. (4b)
 Lord, P. S., Mechanical Contrs., Portland, Oreg. (36a)
 Lorenz Bros., Portland, Oreg. (36b)
 Loselle Constr. Co., Wyandotte, Mich. (21c)
 Lotz, Wm. F., Philadelphia, Pa. (37d)
 Lough, Wm., & Sons, Marion, Ill. (12c)
 Louisville Asphalt Co., Louisville, Ky. (16b)
 Love, Inc., Charleston, W. Va. (47a)
 Lovejoy Constr. Co., Des Moines, Iowa (14b)
 Lovell & Hart Constr. Co., Lexington, Ky. (16a)
 Loving Constr. Co., St. Paul, Minn. (22a)
 Loving, T. A., & Co., Goldsboro, N. C. (32a)
 Lowder, Ray D., Inc., Albemarle, N. C. (32a)
 Lowdermilk Bros., Denver, Colo. & Los Alamos, N. Mex. (5b) (30a)
 Lowe Constr. Co., Marion, Iowa (14a)
 Lowell, E. E., Vallejo, Calif. (4b)
 Lowrie Paving Co., San Francisco, Calif. (4b)
 Lowry, John, Inc., New York City (31c)
 Loyd, Ernest, Fort Worth, Texas (42f)
 Lucarelli, B. J., & Co., Inc., Jersey City, N. J. (L)
 Lueder Constr. Co., Omaha, Nebr. (26a)
 Luedtke Engr. Co., Frankfort, Mich. (21c)
 Lugano Bros., Inc., Belleville, N. J. (29a)
 Luhr Bros., Inc., Columbia, Ill. (23a)
 Lundberg, Joe, Constr. Co., Seattle, Wash. (46a)
 Lundeen Constr. Co., Montezuma, Iowa (14a)
 Lundgren, J. A., & Son, Topeka, Kans. (15a)
 Lundin & Grip, Inc., Rockford, Ill. (12b)
 Lupinski, Inc., Milwaukee, Wis. (48a)
 Lupton, A. H., Jr., Bridgeton, N. J. (29a)
 Luth, Fred M., & Sons, Inc., St. Louis, Mo. (24b) (24c)
 Lyles & Lang Constr. Co., Columbia, S. C. (32a)
 Lyles, W. M., Co., Avenal, Calif. (4b) (4d)
 Lyman Richey Sand & Gravel Corp., Omaha, Nebr. (26b)
 Lynch, Harry S., Co., Inc., Wilmington, Del. (7a)
 Lynch, M. J., San Francisco, Calif. (4b)
 Lynch, Pugh & Corson, Inc., Morgantown, W. Va. (47a)
 Lynch, W. J., Co., Chicago, Ill. & Baltimore, Md. (12a) (19a)
 Lynn & Morsey, San Antonio, Texas (42e)
 Lynn, W. A., Constr. Co., Lincoln, Nebr. (24b) (26b)
 Lynn, Willis F., Oakland, Calif. (4a)
 Lyon Constr. Co., Clinton, Mont. (25a)
 Lyons & Breeden, Madisonville, Ky. (16a)
 Lyons, Frank, & Co., Portland, Oreg. (36a)
 Lyons, Wm. T., Co., Inc., The, Baltimore, Md. (19a)
 Lytle-Amis-San Ore, Ellis, Kans. (15b)
 Lytle, C. F., Company, Sioux City, Iowa (N) (14a)
 Lytle, C. F., Company & Green Constr. Co., Des Moines, Iowa (50a)
 Lytle, W. F., Sr., Fort Worth, Texas (42c)

M

- M-B Contr. Co., Seattle, Wash. (46a)
 M. G. M. Constr. Co., Concord, Calif. (4b)
 M. G. M. Constr. Co., Olympia, Wash. (46a)
 M-J Constr. Co., Inc., Beeville, Texas (42f)
 M. J. B. Constr. Co., Stockton, Calif. (4b) (4d)
 M & K Corp., San Francisco, Calif. (4b)
 M & L Constr. Co., Little Rock, Ark. (3a)
 M. & L. Constr. Co., Philadelphia, Pa. (37d)
 M & M Dredg. & Constr. Co., Miami, Fla. (9b)
 M. & R. Constr. Co., East Boston, Mass. (20a)
 M & S Constr. Co., Inc., East Pittsburgh, Pa. (37c)
 M. & S. Oil & Constr. Co., East St. Louis, Ill. (12c)
 Mabry, Chester, Constr. Co., Tampa, Fla. (9c)
 Macal Improvement Co., Inc., Antioch, Calif. (4b)
 MacClosky, Chas., Co., San Francisco & Los Angeles, Calif. (4b) (4d)

A.G.C. DIRECTORY

- Macco Constr. Co., Inc., Brisbane, Calif. (4b)
Macco Corp., Paramount, Calif. (2a) (4d) (36a)
Macco Corp. & Puget Sound Bridge & Dredg. Co., Paramount, Calif. (5b)
Macdonald Bldg. Co., Tacoma, Wash. (46d)
MacDonald Constr. Co., St. Louis, Mo. (24c)
Macdonald Engr. Co., Chicago, Ill. (12a) (37c)
MacDonald & Kaake, Inc., Marquette, Mich. (21d)
MacDonald, Young & Nelson, Inc., San Francisco, Calif. (4b) (4d)
MacDougald Constr. Co., Atlanta, Ga. (32a)
Machin, E. C., Inc., Allentown, Pa. (37a)
MacIsaac, Menke & Roach, Inc., Los Angeles, Calif. (4d)
Mack Constr. Co., Inc., Cape May, N. J. (29a)
Mackley & Ralston, Minot, N. Dak. (33a)
Macclair Asphalt Co., Inc., East St. Louis, Ill. (12c)
Maclean Constr. Co., Lansing, Mich. (21c)
MacMillin Co., The, Keene, N. H. (28a)
MacNamee, Daniel F., & Co., Inc., New Rochelle, N. Y. (31d)
Macomber, Geo. B. H., Co., Inc., Boston, Mass. (20b)
Macon Constr. Co., Franklin, N. C. (32a)
MacRae Bros., Seattle, Wash. (46a)
Maddox, C. L., Phoenix, Ariz. (2a)
Madewell & Mock Constr. Co., Memphis, Tenn. (41c)
Madison Constr. Co., Edwardsville, Ill. (12c)
Madison County Constr. Co., Inc., Madison, N. Y. (31d)
Madonna Constr. Co., San Luis Obispo, Calif. (4d)
Madsen Constr. Co., Minneapolis, Minn. (22a)
Maescher, Chas. V., & Co., Cincinnati, Ohio (34b)
Magaw, W. L., Richmond, Ind. (13a)
Magee, W. W., Co., St. Paul, Minn. (22a)
Magoffin, S. S., Co., Englewood, Colo. (5b)
Maguire Constr. Co., St. Louis, Mo. (24c)
Maguire, J. C., & Co., Los Angeles, Calif. (4d)
Maguire, Jos. T., Co., Inc., Lowell, Mass. (20b)
Mahoney Bros., Baltimore, Md. (19b)
Mahoney, E. J., Contr. Co., Lansing, Mich. (42m)
Mahony-Troast Constr. Co., Inc., Passaic, N. J. (L)
Maier, Chas., & Son Co., Milwaukee, Wis. (48a)
Malanka, C. F., & Sons, Inc., Union City, N. J. (20a)
Malaspina, Matt & Co., Seattle, Wash. (46a)
Malcolm, C. T., Portland, Oreg. (36a)
Malitano, M., & Son, Inc., Pittsburgh, Calif. (4b)
Malmed Construction Company, Newark, N. J. (L)
Maloney, J. T., & Son, Webster Groves, Mo. (24b)
Manchester Sand, Gravel & Cement Co., Inc., Manchester, N. H. (28a)
Mangham-Butler, Inc., Miami, Fla. (9b)
Mangum, C. C., Raleigh, N. C. (32a)
Manhattan Construction Co., Muskogee, Oklahoma City, & Tulsa, Okla.; Ft. Smith, Ark. & Houston, Texas (N) (35a)
Manhattan Construction Co. of Texas, Houston, Texas (42d)
Mann Constr. Co., Englewood, Colo. (5b)
Mann Constr. Co., Orlando, Fla. (9c)
Mann Constr. Co., New Albany, Ind. (16b)
Mannella, Frank, Constr. Co., Pittsburgh, Pa. (37c)
Manor Constr. Co., Inc., Columbia, S. C. (32a)
Mansfield Asphalt Paving Co., Mansfield, Ohio (34d)
Manson Constr. & Engr. Co., Seattle, Wash. (46b)
Manuel, Paul, Reno, Nev. (27a)
Many, B. J., Co., Inc., Chicago, Ill. (12a)
Marbut, T. F., Emporia, Kans. (15b)
Marchant Bros., Mercedes, Texas (42o)
Marcus, M., Bldg. Co., Cincinnati, Ohio (34b)
Marden, Edw. R., Corp., Brookline, Mass. (20b)
Mardian Constr. Co., Phoenix, Ariz. (2a)
Marhoefer, E. H., Jr. Co., Chicago, Ill. (12a)
Mariani-O'Brien, Inc., St. Petersburg, Fla. (9c)
Maring, Harry, Jr., Inc., Bridgeport, Conn. (6a)
Mario Constr. Co., Inc., Pittsburgh, Pa. (37c)
Marion Coal & Supply Co., Pittsburgh, Pa. (37c)
Markham & Brown, Dallas, Texas (24b)
Markham & Brown & L. L. Sanders, Dallas, Texas (23a)
Markland, M. B., Contracting Co., Atlantic City, N. J. (L)
Marks, Frank B., Jr., Newman, Calif. (4b)
Marks, Howard E., Tracy, Calif. (4b)
Marquette Constr. Co., Houston, Texas (42d)
Marquis, Robt. R., Portsmouth, Va. (45a)
Marrazzo, Tony, Boise, Idaho (11a)
March, Louis, Morrisonville, Ill. (12c)
Marsellis-Warner Corp., Montclair, N. J. (29a)
Marshall Constr. Co., Houston, Texas (42d)
Marshall, G. E., Melstone, Mont. (25a)
Marshall, J. L., & Sons, Inc., Pawtucket, R. I. (38a)
Marshall, S. A., Quincy, Wash. (4b)
Martell, F. H., Co., Inc., Washington, D. C. (8a)
Martens, Henry M., Co., Detroit, Mich. (21a)
Martin, Ben H., Easley, S. C. (32a)
Martin Bros., Inc., Concord, Calif. (4b)
Martin Constr. Co., Tucson, Ariz. (2a)
Martin Constr. Co., Boise, Idaho (11a)
Martin, F. H., Constr. Co., Detroit, Mich. (21a)
Martin, G. L., Albuquerque, N. Mex. (30a)
Martin, Geo. C., Washington, D. C. (8a)
Martin, Guy T., & Co., Gardena, Calif. (4b) (4d)
Martin, J. B., San Antonio, Texas (42c)
Martin, John, Co., Inc., Chattanooga, Tenn. (41a)
Martin, John B., Co., Oklahoma City, Okla. (35a)
Martin, L., & Son, Boston, Mass. (20b)
Martin & Nettletrout Contr. Co., Pittsburgh, Pa. (37b)
Martin, O. H., Co., Pittsburgh, Pa. (37b) (37c)
Martiniello, Louis, & Son, Brighton, Mass. (20b)
Martyn Bros., Inc., Dallas, Texas (42j)
Mary Constr. Co., Cape Girardeau, Mo. (24b)
Marye-Northwestern Co., Denver, Colo. (5a)
Mashuda, Frank, Co., Milwaukee, Wis. (37c)
Masling, Frank, & Son, Monroe, La. (17g)
Mason, Henry M., Co., Inc., Portland, Oreg. (36b)
Mason & Meents Constr. Co., Watseka, Ill. (12c)
Mass, H. H., Constr. Co., Algonquin, Ill. (12c)
Massacoe Bldrs., Inc., Simsbury, Conn. (6a)
Massengale Cement Co., Mobile, Ala. (1a)
Massman Constr. Co., Kansas City, Mo. (24b)
Mast, Harold T., Colfax, Wash. (46c)
Master Masons Constr. Co., Philadelphia, Pa. (37d)
Masters-Jackson Paving Co., Springfield, Mo. (24b)
Masters & Mullen Constr. Co., The, Cleveland, Ohio (34c)
Mastriani, S. G., Co., Scranton, Pa. (37a)
Materne Bros., Spokane, Wash. (46c)
Mathers, J. S., Inc., Waynesboro, Va. (45a)
Mathews Constr. Co., Alhambra, Calif. (4d)
Mathis, A. F., West Des Moines, Iowa (14a)
Mathis, Claude E., Amarillo, Texas (42g)
Mattern Constr. Co., Tulsa, Okla. (35a)
Matthews Construction Company, Princeton, N. J. (L)
Mattison, R. E., & Co., Oklahoma City, Okla. (35a)
Mattson, Isak, & Son, Minot, N. Dak. (33a)
Mattson, W. A., Burlington, Iowa (14b)
Mauger-Smith, Inc., Columbus, Ohio (31d)
Mauldin, L. M., Constr. Co., Albuquerque, N. Mex. (30b)
Maurer, Fred J., & Son, Eureka, Calif. (4b)
Maury, Sam P., Constr. Co., Memphis, Tenn. (41c)
Maury & Wedaman, Memphis, Tenn. (41c)
Mautz & Oren, Inc., Effingham, Ill. (12c)
Maxam Co., The, Portsmouth, N. H. (28a)
Maxey, Carl E., Constr. Co., Lubbock, Texas (42d)
Maxey & Leftwich, Albuquerque, N. Mex. (30b)
Maxon Construction Company, Inc., Dayton, Ohio (N) (17c) (34d)
Maxwell Bridge Co., The, Columbus, Kans. (15b) (24b)
May, G. W., Little Rock, Ark. (3a)
May, Wilfred H., Belmont, Calif. (4a)
Mayer-Heier, Clarion, Iowa (14b)
Mayer-Osborn Co., Denver, Colo. (5a)
Mayersohn, Louis, Albany, N. Y. (31d)
Mayes, Chas. A., Constr. Co., Albion, Ill. (12c)
Mayfield Constr. Co., Kokomo, Ind. (13b)
Mayfield, N. R., Tahoe City, Calif. (4a)
McAbee, F. R., Inc., Seattle, Wash. (46b)

(Numerals after names indicate the Chapter in which member belongs—See Key to Listing of A. G. C. Units—page 217). N—National Member (page 315). L—Local Member.

- McAlister & Davis Co., Pine Bluff, Ark. (23a)
- McAnulty, Inc., Bradenton, Fla. (9c)
- McAnulty, J. H., Chico, Calif. (4b)
- McAtee & Heathe, Spokane, Wash. (46c)
- McBride & Son, Inc., Bastrop, La. (17g)
- McCall Engr. Co., Houston, Texas (42f)
- McCalman Constr. Co., Danville, Ill. (12c) (13a)
- McCann & Co., Inc., Springfield, Ill. (12c)
- McCann Constr. Co., Fort Worth, Texas (42c)
- McCarthy, Ed. A., & Son, Cincinnati, Ohio (34b)
- McCarthy Improvement Co., Davenport, Iowa (12c) (14a)
- McCarthy-Pohl Contrs., Inc., St. Louis, Mo. (24b)
- McCarthy, Robt., Co., San Francisco, Calif. (4a)
- McCartney, Birch, Veradale, Wash. (46c)
- McClain Constr. Co., Inc., Hawthorne, Calif. (4d)
- McClanahan, Fred C., & Son, Shreveport, La. (17b)
- McClintock, R. S., Diamond Drill Co., Spokane, Wash. (46c)
- McClinton Bros. Constr. Co., Fayetteville, Ark. (3a) (35b)
- McCloskey & Co., Philadelphia, Pa. (8a)
- McConnell Constr. Co., Muskogee, Okla. (35b)
- McCorkle, L. E., Contr. Co., Winterset, Iowa (14b)
- McCorkle, Paul, Constr. Co., Sac City, Iowa (14b)
- McCorkle, Tom, Constr. Co., Boise, Idaho (11a)
- McCormack Constr. Co., Pendleton, Ore. (36a)
- McCormack, R. C., St. Louis, Mo. (24c)
- McCosker, A. J., Berkeley, Calif. (4b)
- McCosker, John H., Inc., Berkeley, Calif. (4b)
- McCoy & Butler, Yuba City, Calif. (4a)
- McCoy, Geo. W., & Co., Inc., New Orleans, La. (17a)
- McGrady Constr. Co., Pittsburgh, Pa. (37c)
- McCrae & Nofstger, Oklahoma City, Okla. (35a)
- McCree & Co., St. Paul, Minn. (22a) (40a)
- McCreedy, M. D., Constr. Co., Inc., Iowa City, Iowa (14b)
- McCrory, C. E., Constr. Co., Memphis, Tenn. (41c)
- McCullough, Maurice B., Salt Lake City, Utah (43a)
- McCullough, Royden K., Salt Lake City, Utah (43a)
- McDermott, J. Ray, & Co., Inc., Harvey, La. (17e)
- McDevitt & Street Company, Charlotte, N. C. (N) (32a)
- McDonald, Henry C., Co., Kilgore, Texas (42j)
- McDonough Constr. Co., Parkersburg, W. Va. (47a)
- McDougall, Natt, Co., Portland, Ore. (36a)
- McDowall & Wood, Salem, Va. (32a)
- McDowell Constr., Victorville, Calif. (4d)
- McElderry, B. S., Berkeley, Calif. (4b)
- McElvany, J. L., El Centro, Calif. (4d)
- McFadden, Jos., & Son, Palo Alto, Calif. (4b)
- McGeorge Contr. Co., Inc., Pine Bluff, Ark. (3a)
- McGeorge, W. P., Jr., Pine Bluff, Ark. (24b)
- McGillivray Constr. Co., Sacramento, Calif. (4b)
- McGillivray Bros., Ketchikan, Alaska (50a)
- McGlone, Perry, Constr. Co., Kansas City, Mo. (15b)
- McGowan, M. B., Inc., San Francisco, Calif. (4b)
- McGranahan, K. J., Santa Cruz, Calif. (4a)
- McGraw, Jas., Co., Philadelphia, Pa. (29a)
- McGreevey, John F., & Co., Inc., Manassas, N. J. (29a)
- McGuire, H. A., Constr. Co., Memphis, Tenn. (41c)
- McGuire & Hester, Oakland, Calif. (4b)
- McGuire, M. T. & John T., Algona, Iowa (14a)
- McHugh, Jas., Constr. Co., Chicago, Ill. (12a)
- McIllyar, W. K., Constr. Co., Dallas, Texas (42j)
- McInnis Constr. Co., Spokane, Wash. (46c)
- McIntire, F. B., Constr. Co., Fort Worth, Texas (42c)
- McKean Constr. Co., Salt Lake City, Utah (43a)
- McKee, Arthur, & Co., Cleveland, Ohio (4d)
- McKee, Robt. E., New Orleans, La.; Santa Fe, N. Mex.; Dallas & El Paso, Texas (2a) (30b) (42a) (17a)
- McKee, Robt. E., Gen. Contr., Inc., Glendale, Calif. (4d)
- McKellar, Everett, Chelan, Wash. (46a)
- McKenzie Constr. Co., San Antonio, Texas (42e) (42f) (42j)
- McKenzie, D. F., Salem, Ore. (36a)
- McKenzie-Hague-Simmons Co., Minneapolis, Minn. (22a)
- McKie Lighter Co., Boston, Mass. (20a)
- McKinney Constr. Co., Sunbury, Pa. (37a)
- McKinney, R. W., Nacogdoches, Texas (42f)
- McKinnon Constr. Co., Sandy, Ore. (36a)
- McKinnon-Decker Co., Helena, Mont. (25a) (25b)
- McKittrick, E. S., Co., Inc., Huntington Park & Oakland, Calif. (4a) (4d)
- McKown & Sons, Austin, Texas (42f)
- McKoy-Helgeson Co., Greenville, S. C. (32a)
- McLain Constr. Corp., Buffalo, N. Y. (31d)
- McLaren Bros. Constr. Co., West Palm Beach, Fla. (9e)
- McLaughlin Constr. Co., Livingston, Mont. (25a)
- McLaughlin, Inc., Great Falls, Mont. & Valdez, Alaska (50a) (25a)
- McLean Contracting Company, Baltimore, Md. (N)
- McMahan Constr. Co., Rochester, Ind. (13a)
- McMeekin Constr. Co., Cheraw, S. C. (32a)
- McMichael Concrete Co., Tulsa, Okla. (35b)
- McMicheal, W. A., Constr. Co., Shreveport, La. (17b)
- McMillan, Hugh, El Paso, Texas (42f)
- McMillin-Burkett Constr. Co., Texarkana, Texas (42f)
- McMullin-Larson & Co., Dallas, Texas (42f)
- McMurray, A. R., Constr. Co., Knoxville, Tenn. (41b)
- McNally Constr. Co., Saginaw, Mich. (21c)
- McNally, W. F., Co., Saginaw, Mich. (21c)
- McNary Dam Contrs., Umatilla, Ore. (36a) (46c)
- McNeel, H. J., Inc., Caldwell, Idaho (11a)
- McNeese Constr. Co., Memphis, Tenn. (41c)
- McNeil, J. A., Co., Los Angeles, Calif. (4d)
- McNeill, J. W., Constr. Co., Sioux City, Iowa (14a)
- McNulty, L. J., Inc., South St. Paul, Minn. (22a)
- McNutt Bros., Eugene, Ore. (36a)
- McPhail Engineering, Tacoma, Wash. (46d)
- McQuade, Jas. H., & Sons Co., Pittsburgh, Pa. (37c)
- McQuade, John S., Jr., Philadelphia, Pa. (37d)
- McQuaid Constr. Co., Fort Worth, Texas (42c)
- McRae, Farquhar, Savannah, Ga. (10a)
- McShain, Inc., Philadelphia, Pa. (37d)
- McShain, John, Inc., Arlington, Va. (8a)
- McShane Contr. Co., Pittsburgh, Pa. (37c)
- McVean & Barlow, Odessa, Texas (42m)
- McWilliams Dredging Company, New Orleans, La. (N) (23a)
- Meador Constr. Co., Atlanta, Ga. (10a)
- Meadow Constr. Co., Bakersfield, Calif. (4d)
- Meagher, W. J., & Sons, Bay City, Mich. (21c)
- Mecham, M. S., & Sons, South Gate, Calif. (4d)
- Medis, Paul L., Pittsburgh, Pa. (37c)
- Meers Constr. Co., Dallas, Texas (42a)
- Meers, E. W. G., Constr. Co., Memphis, Tenn. (41c)
- Mefford Constr. Co., Enid, Okla. (35a)
- Megin, W. J., Inc., Naugatuck, Conn. (6a)
- Meigs, Hilton, Victoria, Texas (42i)
- Meinecke-Johnson Co., Fargo, N. Dak. (33a)
- Meisner-Anderson Co., Bismarck, N. Dak. (33a)
- Meitz-Spears-Dehner Co., Inc., Fort Wayne, Ind. (13a)
- Melberg, Amos, Cedar Rapids, Iowa (14a)
- Mellon-Stuart Co., Pittsburgh, Pa. (37b)
- Mellwin Constr. Co., The, Denver, Colo. (5a)
- Mendenhall, Deal, Springville, Utah (43a)
- Menefee, W. J., Constr. Co., Sedalia, Mo. (24b)
- Menze, Franz, Marquette, Mich. (21d)
- Mercer-Fraser Co., Eureka, Calif. (4b)
- Merchant Constr. Co., Asheville, N. C. (32a)
- Meredith, Trent, Oxnard, Calif. (4d)
- Merrill, Ted F., & Sons, Inglewood, Calif. (4d)
- Merritt-Chapman & Scott Corp., New York, N. Y.; New London, Conn. & Cleveland, Ohio (N) (20a)
- Meshberger Bros. Stone Corp., Linn Grove, Ind. (13a)
- Messenger, A., Lbr. & Milwk. Constr. Co., The, Pittsburgh, Kans. (15a)
- Messer, Frank, & Sons, Inc., Cincinnati, Ohio (34b)
- Metcalfe Constr. Co., Kansas City, Mo. (24b)
- Metzger Constr. Corp., Buffalo, N. Y. (31a)
- Meyers, B. E., Inc., Coral Gables, Fla. (9b)
- Meyer, C. R., & Sons Co., Oshkosh, Wis. (48b)
- Meyer, Edw. H., Constr. Co., Neenah, Wis. (48b)
- Meyer-Hecht Co., Cincinnati, Ohio (34b)

A.G.C. DIRECTORY

- Meyer, Robt. Wm., Cadillac, Mich. (21c)
 Meyers, Walter, Spokane, Wash. (46c) (46e)
 Meyerson, Albert, Co., Houston, Texas (42d)
 Meyne, Gerhardt F., Co., Chicago, Ill. (12a)
 Mickelson, John H., Logan, Utah (43a)
 Mickle & Ross Constr. Co., Newton, Iowa (14a)
 Micotto, R. C., Constr. Co., St. Louis, Mo. (24c)
 Mid-America Engr. Corp., Skokie, Ill. (21c)
 Mid-South Constr., Inc., Memphis, Tenn. (41c)
 Mid-State Bldrs., Inc., Utica, N. Y. (31d)
 Mid-States Constr. Co., Inc., Mt. Vernon, Ill. (42m)
 Middle States Bituminous Corp., Ashland, Ky. (16a)
 Middle West Roads Co., Noblesville, Ind. (13a)
 Middleton, G. W., Providence, R. I. (38a)
 Midland Constr. Co., Missoula, Mont. (25a)
 Midland Constr., Inc., Chicago, Ill. (12a)
 Midland Constr. Co., Midland, Mich. (21c)
 Midstate Constr. Co., San Francisco, Calif. (4a)
 Midstate Constr., Inc., Hickory, N. C. (32a)
 Midwest Constr. Co., Holton, Kans. (15b)
 Midwest Constr., Inc., Poplar Bluff, Mo. (24b)
 Midwest Constr. Co., Minneapolis, Minn. (22a)
 Midwest Constr. Co., Dallas, Texas (42j)
 Midwest PreCote Co., Kansas City, Mo. (15b) (24b)
 Midwestern Constr., Inc., Tulsa, Okla. (42m)
 Midwestern Constr., Inc., Wheaton, Ill. (42m)
 Mikkelsen, E. C., Constr. Co., Inc., Kirkwood, Mo. (24c)
 Mildenstein, Max, Cedar Rapids, Iowa (14b)
 Miles, L. J., Constr. Co., Fort Worth, Texas (42f)
 Miletto Constr. Co., Akron, Ohio (34a)
 Miller, A. L., Sacramento, Calif. (4b)
 Miller Bros. Constr., Minot, N. Dak. (33a)
 Miller-Davis Co., Kalamazoo, Mich. (21b)
 Miller, Geo., Constr. Co., Los Angeles, Calif. (4d)
 Miller, Geo. E., Reno, Nev. (27a)
 Miller, H. W., Constr. Co., Inc., Covington, Ky. (34b)
 Miller, Haynes, Smith, Inc., Henderson, Nev. (27b)
 Miller & Henkel, Fresno, Calif. (4b)
 Miller, John G., Constr. Co., Waterloo, Iowa (14a) (14b)
 Miller & Miller, Los Angeles, Calif. (4d)
 Miller & Norton, Dallas, Texas (42a)
 Miller, Paul C., Comstock Park, Mich. (21c)
 Miller & Smith, Albuquerque, N. Mex. (30a)
 Miller-Stauch Constr. Co., Kansas City, Mo. (24a)
 Miller & Strong, Inc., Eugene, Oreg. (36a)
 Miller, T., & Sons, Lake Charles, La. (17c) (17e)
 Miller, W. Harley, Martinsburg, W. Va. (47a)
 Miller, W. L., Co., Elvaston, Ill. (12c)
 Millie, G. O., Constr. Co., San Rafael, Calif. (4a)
 Milligan, O. D., Constr. Co., Manhattan, Kans. (15a)
 Millis, Ray, Omaha, Nebr. (26b)
 Mills & Jones, Inc., St. Petersburg, Fla. (9c)
 Mills, Ralph E., Co., Salem, Va. (45a)
 Millstone, I. E., Constr. Co., St. Louis, Mo. (24c)
 Mincey Constr. Co., Sacramento, Calif. (4b)
 Minnis & Shilling, Eugene, Oreg. (36a)
 Minnotte Bros. Co., Pittsburgh, Pa. (37b)
 Minton Constr. Co., Cleveland, Ohio (34c)
 Mion Constr. Co., Atlanta, Ga. (10a)
 Miron, P. G., Constr. Co., Inc., Appleton, Wis. (48b)
 Misch, Arthur O., Co., Detroit, Mich. (21a)
 Misco, Inc., Seattle, Wash. (46a)
 Mission Equip. & Constr. Co., Mission, Kans. (15b)
 Mississippi Valley Contr. Co., Inc., Paragould, Ark. (3a)
 Mississippi Valley Engr. & Constr. Co., Memphis, Tenn. (23a) (41c)
 Missner Constr. Co., Chicago, Ill. (12a)
 Missouri Petroleum Prods. Co., Overland, Mo. (24b)
 Missouri Valley Limestone Co., Inc., Des Moines, Iowa (14a)
 Mitchell, C. E., & Sons, Great Falls, Mont. (25b)
 Mitchell Constr. Co., Fort Worth, Texas (42c)
 Mitchell Constr. Co., The, Springfield, Mo. (15a)
 Mitchell Contr. Co., Herrin, Ill. (12c)
 Mitchell, E. J., Constr. Co., Wellington, Kans. (15a)
 Mitchell, E. Stewart, Inc., Baltimore, Md. (19b)
 Mitchell, G. W., San Antonio, Texas (42c)
 Mitchell, H. F., Constr. Co., Burlington, N. C. (32a)
 Mitchell, Roy M., Tyler, Texas (42j)
 Mitchell, Russ, Inc., Houston, Texas (42f) (42j)
 Mittry Constr., Los Angeles, Calif. (4d)
 Mittry, K. S., Constr. Co., Los Angeles, Calif. (5b)
 Mitzel Co., The, Cleveland, Ohio (34c)
 Mixon, B. H., Henderson, N. C. (32a)
 Mobilhome Corp. of America, The, Bakersfield, Calif. (4b)
 Mobley, Clarence, Contr. Co., Augusta, Ga. (10a) (32a)
 Mode & McCracken, Conway, Ark. (3a)
 Modern Bldrs. Constr. Co., Inc., Long Beach, Calif. (4d)
 Modern Bldrs., Inc., Rocky Mount, N. C. (32a)
 Modern Bldg. Co., Chico, Calif. (4a)
 Modern Repair Co., Atlanta, Ga. (10a)
 Modernization Constr. Co., Atlanta, Ga. (10a)
 Moeller, Geo., Constr. Co., St. Louis, Mo. (24c)
 Moellering Constr. Co., Fort Wayne, Ind. (13a)
 Mohamed Earthmoving Contr., Phoenix, Ariz. (2a)
 Mohawk Paving Co., Geneva, N. Y. (31d)
 Mohler Constr. Co., Washington, D. C. (8a)
 Mohr Constr. Co., Inc., Kokomo, Ind. (13a)
 Mohr, Henry, Boston, Mass. (20a)
 Moline, E. A., Jamestown, N. Dak. (33a)
 Molony & Rubien Constr. Co., Providence, R. I. (38a)
 Molzahn, Theo. J., & Sons, Inc., La Crosse, Wis. (48b)
 Monaco Constr. Co., The, Bridgeport, Conn. (6a)
 Monaghan, J. H. & N. M., & Assoc. Cos., Derby, Colo. (5b) (49a)
 Monarch Engr. Co., Falls City, Nebr. (26b)
 Monroe Constr. Co., Monroe, Wash. (46a)
 Monson Bros., San Francisco, Calif. (4a)
 Montag, C. J., & Sons, Portland, Oreg. (36a)
 Montague Constr. Co., Chicago, Ill. (12a)
 Montana Engr. & Constr. Co., Helena, Mont. (25a)
 Montank & Son, Los Angeles, Calif. (4d)
 Montgomery, F. O., Co., Humboldt, Iowa (14a)
 Montgomery, J. M., & Co., Inc., Los Angeles, Calif. (4d)
 Montgomery, P. O'B., Dallas, Texas (42a)
 Montgomery, T. M., Auburn, Calif. (4b)
 Monty Bros., St. Albans, W. Va. (47a)
 Mooney-Sweatt-Bundy Corp., Dover, N. H. (28a)
 Mooney, W. E., Co., Inc., Washington, D. C. (8a)
 Moore, Bart, Co., San Antonio, Texas (42f)
 Moore Bridge Co., Inc., Ada, Okla. (35b)
 Moore Bros. Constr. Co., Lufkin, Texas (42f)
 Moore Bros., Inc., East St. Louis, Ill. (12c) (12d)
 Moore, Cecil L., San Leandro, Calif. (4b)
 Moore Constr. Co., Myrtle Beach, S. C. (32a)
 Moore Constr. Co., Rapid City, S. Dak. (40a)
 Moore Constr. Co., Austin, Texas (42k)
 Moore, Edw. S., & Sons, St. Petersburg, Fla. (9c)
 Moore Engr. Co., Mt. Vernon, Ill. (12c)
 Moore, G. E., Co., Inc., Greenwood, S. C. (32a)
 Moore, Harold B., Windham, N. Y. (31d)
 Moore & Moore, LaPorte, Texas (42d)
 Moore, P. J., & Son, Tracy, Calif. (4b)
 Moore & Roberts, Inc., San Francisco, Calif. (4a)
 Moorman, J. W., & Son, Muskogee, Okla. (35b)
 Mora, Gerald, Houston, Texas (42d) (42j)
 Moragne, Davis, Constr. Co., Columbia, S. C. (32a)
 Moran, Wm. J., Co., Alhambra, Calif. (4d)
 Morehead Constr. Co., Cedar Rapids, Iowa (14b)
 Morehouse, E. R., Co., Camden, N. J. (29a)
 Moreland Constr. Co., Wichita, Kans. (15a)
 Morgan, Arthur, Trucking Co., St. Louis, Mo. (21c)
 Morgan & Co., Homestead, Pa. (37b)
 Morgan, E. R., Gastonia, N. C. (32a)
 Morgan-Holloman Constr. Co., Tuscaloosa, Ala. (1a)
 Morgan, J. E., & Sons, El Paso & Dallas, Texas (1) (42a)
 Moritz, C. J., Inc., Effingham, Ill. (12c)
 Morrin, M., & Son, Inc., Ogden, Utah (43a)

(Numerals after names indicate the Chapter in which member belongs—See Key to Listing of A. G. C. Units—page 217). N—National Member (page 315). L—Local Member.

- Morris Constr. Co., Denver, Colo. (5a)
 Morris Constr. Co., Greenville, S. C. (32a)
 Morris, Robt., Constr. Co., Austin, Texas (42k)
 Morris, W. E., Birmingham, Ala. (1a)
 Morrison Constr. Co., Seattle, Wash. (46a)
 Morrison & Fisher, Walla Walla, Wash. (36a)
 Morrison-Knudsen Co., Inc., Boise, Idaho; Los Angeles & San Francisco, Calif.; Amboy & Seattle, Wash.; & New York, N. Y. (N) (4d) (11a) (36a) (46a) (49a) (50a) (4b)
 Morrow Bros., Inc., Baltimore, Md. (19a)
 Morrow, E. L., Constr. Co., Mobile, Ala. (1a)
 Mortensen, Nelse, & Co., Inc., Seattle, Wash. (46b) (50a)
 Morton, Jas. P., Constr. Co., Placerville, Calif. (4a)
 Moser, F. A., Farmersburg, Iowa (14a)
 Mosher & Kiker, El Reno, Okla. (35b)
 Moss, Edwin, & Son, Inc., Bridgeport, Conn. (6a)
 Moss, R. L., Constr. Co., Zenith, Wash. (46a)
 Moss-Thornton Co., Inc., Leeds, Ala. (1a)
 Mott Constr. Co., Centerville, Iowa (14a)
 Mott Core Drilling Co., Huntington, W. Va. (47a)
 Mott-Mohr Constr. Co., Inc., New Haven, Conn. (6a)
 Mountain State Constr. Co., South Charleston, W. Va. (47a)
 Mountain States Constr. Co., Inc., Pocatello, Idaho (11a)
 Mountaineer Engr. Co., Inc., Corapolis, Pa. (37c)
 Mouton, J. B., & Sons, Lafayette, La. (17f)
 Mowat, A. F., Constr. Co., Seattle, Wash. (46b)
 Mowery, Raymond S., Carlisle, Pa. (37a)
 Mozzicato Constr. Co., Medford, Mass. (20b)
 Muehlenbeck, Wm. J., Saginaw, Mich. (21c)
 Mueller, C. W., Louisville, Ky. (16b)
 Mueller Constr. Co., Marshalltown, Iowa (14b)
 Muirhead, Wm., Construction Company, Inc., Durham, N. C. (N) (32a)
 Mulcare, Thos., Corp., Boston, Mass. (20b)
 Mullen, D. L., & Co., Brownsville, Texas (42a)
 Mullinix Constr. Co., Oklahoma City, Okla. (35b)
 Mullins, John M., Inc., Troy, N. Y. (31d)
 Mullis, Carl W., Lumber Co., Lancaster, S. C. (32a)
 Munn, Chas. S., Dallas, Texas (42a)
 Munn, Geo. R., Atlanta, Ga. (10a)
 Munn & Perkins, Modesto, Calif. (4b)
 Munter, M. P., Co., Seattle, Wash. (46a) (50a)
 Murch-Jarvis Co., Inc., St. Louis, Mo. (12d) (24c)
 Murdock Constr. Co., The, Norwood, Ohio (34b)
 Murphy Bros., Spokane, Wash. (46c)
 Murphy Constr. Co., The, West Palm Beach, Fla. (9c)
 Murphy, J. R., Fort Worth, Texas (42c)
 Murphy, Martin, Walnut Creek, Calif. (4b)
 Murphy-McDonnell Co., Upper Darby, Pa. (37d)
 Murphy-Quigley & Co., Philadelphia, Pa. (37d)
 Murphy-Smetstad Constr. Co., Fargo, N. Dak. (40a)
 Murphy, Wm., & Son, St. Paul, Minn. (22a)
 Murray, C. D., Co., Inc., Syracuse, N. Y. (31d)
 Murrell Constr. Co., Philadelphia, Pa. (37d)
 Musick, Don C., Constr. Co., St. Louis, Mo. (24c)
 Musick-Meyer Constr. Co., Grand Junction, Colo. (5a)
 Muskegon Constr. Co., Muskegon, Mich. (21b)
 Mutersbaugh, A. M., Lake Charles, La. (17c)
 Mutual Constr. Co., Inc., Bridgeport, Conn. (6a)
 Myers Bros., Los Angeles, Calif. (4d)
 Myers Bros., Ft. Atkinson, Iowa (14a)
 Myers Constr. Co., Inc., Charlotte, N. C. (32a)
 Myers, Geo. M., Inc., El Dorado, Kans. (15b)
 Myers, J. E., Kingsport, Tenn. (41e)
 Myers, Ralph, Contr. Corp., Salem, Ind. (13a) (37c)
- N**
- Nagel, J. J., Perham, Minn. (22a)
 Nagelkirk & Ranta, Grand Rapids, Mich. (21c)
 Nanticoke Constr. Co., Nanticoke, Pa. (37a)
 Napp-Grecco Co., The, Newark, N. J. (29a)
 Nappe Constr. Co., Inc., Burbank, Calif. (4d)
 Nardulli & Sons Co., Inc., Pittsburgh, Pa. (37c)
 Nashert, Walter, Co., Oklahoma City, Okla. (35a)
 Nason & Cullen, Philadelphia, Pa. (37d)
 Nasvik Constr. Co., Bemidji, Minn. (22a)
 National Concrete Fireproofing Co., The, Cleveland, Ohio (34c)
 National Constr. Co., Omaha, Nebr. (14a) (26b)
 National Engr. Co., Washington, D. C. (8a)
 National Paving & Contr. Co., Baltimore, Md. (19b)
 National Steel & Shipbldg. Corp., San Diego, Calif. (4c)
 Naugle-Leck, Inc., Minneapolis, Minn. (22a)
 Naumann, John, & Sons, Inc., Toledo, Ohio (34c)
 Navarro Corp., Pittsburgh, Pa. (37b)
 Neal, C. P., Constr. Co., Forest City, N. C. (32a)
 Nebel, Jos. F., Co., Washington, D. C. (8a)
 Neely, John C., Constr. Co., Wichita, Kans. (15a)
 Neff, Robt. A., Shreveport, La. (17b)
 Neighborgall Constr. Co., Huntington, W. Va. (47a)
 Neiman Co., Philadelphia, Pa. (37d)
 Neitge, Ben, Constr. Co., Mankato, Minn. (22a)
 Nelson, C. L., & Co., Inc., Brainerd, Minn. (22a)
 Nelson, Carl A., & Co., Inc., Burlington, Iowa (14b)
 Nelson, Carl E., Logan, Utah (43a)
 Nelson & Co., Inc., Racine, Wis. (48b)
 Nelson, Geo., & Son, Inc., Madison, Wis. (48b)
 Nelson, Mullen & Nelson, Inc., Minneapolis, Minn. (22a)
 Nelson, Mullen & Webster, Minneapolis, Minn. (22a)
 Nelson, N. A., Constr. Co., Sheridan, Wyo. (49a)
 Nelson, Olof, Constr. Co., Logan, Utah (43a)
 Nelson, Peter, & Son, Inc., La Crosse, Wis. (48b)
 Nelson, W. F., Co., San Diego, Calif. (4c)
 Nelson, Wendell E., Fallon, Nev. (27a)
 Nemmers Bros., LeMars, Iowa (14b)
 Nesmith, Robt. E., Inc., Houston, Texas (42d)
 Nesto Constr. Co., Newark, N. J. (29a)
 Netherton Co., Shreveport, La. (17e)
 Neumann, Arthur H., & Bros., Inc., Des Moines, Iowa (14a) (14b)
 Nevada Engr. & Constr. Co., Reno, Nev. (27a)
 New Jersey Asphalt & Paving Co., Jersey City, N. J. (29a)
 New London Materials & Constr. Co., Willmar, Minn. (22a)
 New State Elec. Co., Phoenix, Ariz. (2a)
 Newbanks, Merrill W., Co., Atlanta, Ga. (10a)
 Newbery Elec. Corp., Los Angeles, Calif. (4d)
 Newbery Elec. Corp. of Arizona, Phoenix, Ariz. (2a)
 Newburn, L. L., Seattle, Wash. (46a)
 Newkirk, A. D., & Son, Jacksonville, Fla. (9a)
 Newman, Stanley W., Co., Inc., Mobile, Ala. (1a)
 Newport Constr. Co., Portland, Ore. (36a)
 Newsom & Netherby Bldrs., North Sacramento, Calif. (4a)
 Newsome, Douglas E., Columbus, Ga. (10a)
 Newton, Harry, Inc., Graham, Texas (42f)
 Nicholas, K. B., Ontario, Calif. (4d)
 Nichols Constr. Co., Geneva, Nebr. (26b)
 Nichols, Harvey A., Los Angeles, Calif. (4d)
 Nicholson Co., Inc., The, New York City & Butte, Mont. (31c) (25b)
 Nicholson, D. W., Corp., San Leandro, Calif. (4a)
 Nicholson, H. B., Pasadena, Calif. (4d)
 Nicholson, V. L., Co., Knoxville, Tenn. (41b)
 Nicol, Thos., & Co., Farmingdale, N. J. (29a)
 Nielsen Constr. Co., San Diego, Calif. (4c)
 Nielsen, N. R., & Son, Denver, Colo. (5a)
 Nielsen, S. N., Co., Chicago, Ill. (12a)
 Nielsen, Wilbur, Co., Blencoe, Iowa (14a)
 Nilson-Smith Constr. Co., Great Falls, Mont. (25a)
 Noble, R. J., Co., Orange, Calif. (4d)
 Nodland-Alberg Co., Alexandria, Minn. (22a)
 Noel, Harry, Spencer, Iowa (14a)
 Noel, W. H., Co., Jamestown, N. Dak. (22a) (40a)
 Nolan, E. C., Co., Centerline, Mich. (21c)
 Noland Constr. Co., Dodge City, Kans. (15a)
 Nomellini Constr. Co., Stockton, Calif. (4b)
 Nonemaker-Clayton Constr. Co., Atlanta, Ga. (10a)
 Noonan, R. S., Inc., York, Pa. (37a)
 Norfolk Bridge & Constr. Co., Norfolk, Nebr. (26b)
 Norlie Constr. Co., Chico, Calif. (4a)
 Normac, Inc., Huntington Park, Calif. (4d)
 Norman, F. L., Sidney, Iowa (14a)
 Norris, Guy J., Shelton & Seattle, Wash. (36a) (46a)

A.G.C. DIRECTORY

North Central Constr. Co., Hampton, Iowa (14a)
 North-Moller Co., Jackson, Mich. (21b)
 North Seattle Constr. Co., Seattle, Wash. (46a)
 North State Constr. Co., Inc., Rocky Mount, N. C. (32a)
 Northern Constr. Co., Grand Forks, N. Dak. (33a)
 Northern Improvement Co., Fargo, N. Dak. (22a)
 Northwest Constr. Co., Seattle, Wash. (46a)
 Northwest Precote, Inc., Seattle, Wash. (46a)
 Northwestern Constr. Co., Minneapolis, Minn. (22a)
 Northwestern Engr. Co., Rapid City, S. Dak. & Denver, Colo. (5b) (25a) (26b) (40a) (49a)
 Nottingham, M. C., Co., Temple City, Calif. (4d)
 Novelty, O & O, Co., Inc., Reno, Nev. (27a)
 Nunez Constr. Co., Inc., Texas City, Texas (42d)
 Nunn, Paul H., Oklahoma City, Okla. (42j)
 Nutter Constr. Co., Wilmington, Del. (7a)
 Nygren, David, Seattle, Wash. (46a)

O

Oak Constr. Co., Royal Oak, Mich. (21c)
 Oakland Sewer Constr. Co., Walnut Creek, Calif. (4b)
 Oberg Bros. Constr. Co., Inglewood, Calif. (4d)
 Oberg, Steve R., Constr. Co., Sioux Falls, S. Dak. (40a)
 O'Brien Constr. Co., Great Falls, Mont. (25a)
 O'Brien, F. P., Inc., Morgan City, La. (17f)
 O'Brien, John M., Memphis, Tenn. (41c)
 O'Brien, W. F., St. Paul, Kans. (15b)
 O'Connell & Sweeney, Inc., Cincinnati, Ohio (34b)
 O'Connell's, Daniel, Sons, Inc., Holyoke, Mass. (L)
 O'Connor Bros., Red Bluff, Calif. (4b)
 O'Connor Constr. Co., Springfield, Ill. (12c)
 O'Connor Constr. Co., Fromberg, Mont. (25a)
 O'Connor Constr. Co., Inc., Kalispell, Mont. (25a)
 O'Connor, J. C., & Sons, Inc., Fort Wayne, Ind. (13a)
 O'Connor, J. D., Constr. Co., Inc., San Anselmo, Calif. (4b)
 O'Connor Oakes Co., Gretna, La. (17a)
 Odegard Constr. Co., Everett, Wash. (46b)
 Odell, L. W., San Marino, Calif. (4d)
 O'Dell & Riney Constr. Co., Kirkwood, Mo. (24b)
 Odman, Arthur, Fair Oaks, Calif. (4a)
 Odum, J. M., Austin, Texas (42k)
 Oefflein, Walter W., Inc., Milwaukee, Wis. (48a)
 Ofeco Constr. Co., Inc., Long Beach, Calif. (4d)
 O'Hair, W. H., Co., Colusa, Calif. (4b)
 O'Herron, M., Co., Pittsburgh, Pa. (37c)
 Okes Constr. Co., St. Paul, Minn. (22a)
 Oklahoma Contr. Co., Dallas, Texas (42m)

Oklahoma Paving Co., Oklahoma City, Okla. (35b)
 Okland Constr. Co., Salt Lake City, Utah (43a)
 Oldt, F. S., Co., Dallas, Texas (42f) (42j)
 Olerich, Walter F., Los Angeles, Calif. (4d)
 Olesen, Jens, & Sons Constr. Co., Waterloo, Iowa (14b)
 Olinger Constr. Co., Huntingburg, Ind. (13a)
 Oliver, J. C., Tyler, Texas (42j)
 Olmstead, A. C., Janesville, Wis. (48b)
 Olney Constr. Co., Inc., Pensacola, Fla. (9d)
 Olney, H. B., Inc., East Chicago, Ind. (13b)
 O'Loughlin & Hansen, Rochester, Minn. (22a)
 Olsen, Walter L., Santa Rosa, Calif. (4a)
 Olson, A., Constr. Co., Waterloo, Iowa (14a)
 Olson & Appleby, New Bedford, Mass. (20b)
 Olson Constr. Co., Lincoln, Nebr.; Salt Lake City, Utah & Denver, Colo. (5a) (25a) (43a)
 Olson, F., Los Angeles, Calif. (4d)
 Olson & Hart, Denver, Colo. (5a)
 Olson, Jack C., Lorenzo, Idaho (11a)
 Olson, Russell, Constr. Co., Pendleton, Oreg. (36a)
 Olson, Sherman, Inc., Chicago, Ill. (12a)
 Olympian Dredging Company, San Francisco, Calif. (4b)
 Oman Construction Company, Nashville, Tenn. (N)
 Oneal, C. E., Co., Inc., Ellensburg, Wash. (46c)
 Oneiglia & Gervasini, Torrington, Conn. (31d)
 O'Neil, C. R., North Powder, Oreg. (36a)
 O'Neil Constr. Co., The, Havre, Mont. (25b)
 O'Neil, W. E., Constr. Co., Chicago, Ill. (12a)
 Orders, W. R., St. Albans, W. Va. (47a)
 Oregon Asphaltic Paving Co., Portland, Oreg. (36a)
 Orheim, I. E., Minot, N. Dak. (33a)
 O'Rourke Constr. Co., Houston & Dallas, Texas (42a) (42d)
 O'Rourke, J. L., & Son, Dallas, Texas (42a)
 Orr, J. C., & Son, Altoona, Pa. (37a)
 Orr, John B., Inc., Miami, Fla. (9b)
 Orr & Orr Constr. Co., Phoenix, Ariz. (2a)
 Orshek, Francis R., Co., Fremont, Nebr. (26b)
 Ortman & Reitze, Meadville, Pa. (37a)
 Osage Constr. Co., Oklahoma City, Okla. (42j)
 Osberg Constr. Co., Seattle, Wash. (46a)
 Osborn Co., Pasadena, Calif. (4d)
 Osceola Constr. Co., Pensacola, Fla. (9d)
 Osterling Constr. Co., Inc., Cherokee, Iowa (14b)
 Ostermann, Gus, & Sons, Ocheyedan, Iowa (14a)
 Ostrom Constr. Co., Inc., Indianapolis, Ind. (13b)
 Ostruske-Murphy, Inc., Tacoma, Wash. (46d)
 Oswald Bros., Los Angeles, Calif. (4d)
 Ottaviano, A. E., Inc., Croton-on-Hudson, N. Y. (31d)
 Otto, C. A., Marysville, Calif. (4a)
 Outdoor Display Co., Lewistown, Pa. (37a)
 Overaa, C., & Co., Inc., Richmond, Calif. (4a)

Overland Sand & Gravel Co., Stromsburg, Nebr. (26b)
 Owen-Ames-Kimball Co., Grand Rapids, Mich. (21b)
 Owen Constr. Co., Inc., Greensboro, N. C. (32a)
 Owens, F. W., Co., Louisville, Ky. (16b)
 Owens, J. B., Tampa, Fla. (9c)
 Owens, J. Sam, Constr. Co., Longview, Texas (42n)
 Owens, T. Calvin, Inc., Washington, D. C. (8a)
 Owl Truck & Constr. Co., Compton, Calif. (4d)

P

P & H Constr. Co., Oklahoma City, Okla. (35b)
 P. & S. Constr. Co., Macon, Mo. (24b)
 P. & W. Constr. Co., Inc., Atlanta, Ga. (10a)
 Pace-Spence Co., Austin, Texas (42f)
 Pacific Bridge Co., San Francisco, Calif. (4b)
 Pacific Bldrs., Salinas, Calif. (4a)
 Pacific Coast Bldrs., San Francisco, Calif. (4a)
 Pacific Co., The, Oakland, Calif. (4a)
 Pacific Constr. Co., Seattle, Wash. (46a)
 Pacific Constr. Co., Vancouver, Wash. (50a)
 Pacific Construction Co., Ltd., Honolulu, T. H. (L)
 Pacific Trust Corp., Newport Beach, Calif. (4d)
 Pacific Crane & Rigging, Inc., Los Angeles, Calif. (4d)
 Pacific Pavements Co., Ltd., San Francisco, Calif. (4b)
 Pacific Pipeline Constr. Co., Montebello, Calif. (4d)
 Pacific Sand & Gravel Co., Centralia, Wash. (46d)
 Packard Contr. Co., Phoenix, Ariz. (2a)
 Packtor, Edw., Co., Wethersfield, Conn. (6a)
 Paddock Engr. Co. of Texas, Dallas, Texas (42j)
 Padgett, John W., & Sons, Fort Worth, Texas (42c)
 Pafford, Jas. M., Inc., Falmouth, Mass. (20b)
 Page Constr. Co., Boston, Mass. (20b)
 Page Corp. & T. M. Page, Monrovia, Calif. (4d)
 Page, Holland, Austin, Texas (42f)
 Page, T. M., Corp., Roseville, Calif. (4b)
 Pagenhart, C. C., Rochester, Minn. (22a)
 Paine-Gallucci, Inc., Tacoma, Wash. (46d)
 Paist, Chas. E., Estate, Perry, Iowa (14b)
 Palmberg, H. G., Astoria, Oreg. (36a)
 Palmetto Constr. Co., Inc., Columbia, S. C. (32a)
 Palombo, D., Sons, Pittsburgh, Pa. (37c)
 Panelcrete Engr. Co., Los Angeles, Calif. (2a)
 Pangia Constr. Co., Atco, N. J. (29a)
 Panhandle Constr. Co., Lubbock, Texas (42f) (42j)
 Papin, J. C., Sandy, Oreg. (36a)
 Pappin Constr. Co., Great Falls, Mont. (25b)
 Paquette Constr. Co., Manchester, N. H. (28a)
 Parda, T. J., Pensacola, Fla. (9d)

(Numerals after names indicate the Chapter in which member belongs—See Key to Listing of A. G. C. Units—page 217). N—National Member (page 315). L—Local Member.

- Parham-Darr Constr. Co., High Point, N. C. (32a)
- Parish Bros., Benicia, Calif. (4b)
- Park, Alden B., Clayton, Mo. (24c)
- Park Constr. Co., Minneapolis, Minn. (22a)
- Park Constr. Co., Inc., Boston, Mass. (20b)
- Park, Paul, Co., Storm Lake, Iowa (14b)
- Park-Ward Co., Oklahoma City, Okla. (35b)
- Parker Constr. Co., Harlingen, Texas (42a)
- Parker, H. Earl, Inc., Marysville, Calif. (4b)
- Parker-Johnson Co., Portland, Oreg. (36b)
- Parker-Schram Co., Portland, Oreg. (36a)
- Parker, Steffens & Pearce, San Francisco, Calif. (4a)
- Parker, W. J., Constr. Co., Omaha, Nebr. (40a)
- Parkhill Constr. Co., Washington, D. C. (8a)
- Parkhill-Wade, Los Angeles, Calif. (4d)
- Parkman Constr. Co., Inc., Boston, Mass. (20b)
- Parks, T. U., Co., Chattanooga, Tenn. (41a)
- Parlor City Constr. Co., Endicott, N. Y. (31d)
- Paroline, John B., Morgan Hill, Calif. (4b)
- Parrott, B. F., & Co., Inc., Roanoke, Va. (45a) (47a)
- Parson & Fife Constr. Co., Brigham City, Utah (43a)
- Parsons Constr. Co., Omaha, Nebr. (26a)
- Parsons, Ralph M., Co., The, Los Angeles, Calif. (4d)
- Paschall-Sanders Constr. Co., Fort Worth, Texas (42c)
- Pasquale Constr. Co., Endicott, N. Y. (31d)
- Pate, J. F., Constr. Co., Mobile, Ala. (1a)
- Patterson Constr. Co., Inc., New Haven, Conn. (6a)
- Patricelli, John, Seattle, Wash. (46a)
- Patrick, S. V., Constr. Co., Albuquerque, N. Mex. (30b)
- Patterson, Dean, Constr. Co., Burlington, N. C. (32a)
- Patterson, Frank O., Monongahela, Pa. (37c)
- Patterson, Geo. R., Stockton, Calif. (4b)
- Patterson, W. H., & Co., Baton Rouge, La. (17c)
- Patti-MacDonald Constr. Co., St. Louis, Mo. (50a)
- Patti, S., Constr. Co., Inc., Kansas City, Mo. (24a)
- Patton-Tully Transportation Co., Memphis, Tenn. (23a)
- Paugh & Brown, Inc., Cleveland, Ohio (34c)
- Paul, Ed, Birmingham, Ala. (1a)
- Paul, G. A., Birmingham, Ala. (1a)
- Paulsen Constr. Co., Salt Lake City, Utah (43a)
- Paulson, O. F., Constr. Co., Cedar Rapids, Iowa (14b)
- Paulus, Robt., Constr. Co., St. Louis, Mo. (24c)
- Pavement Planing Co., Los Angeles, Calif. (4d)
- Pavia Co., The, Verona, Pa. (37c)
- Payne Constr. Co., Inc., San Francisco, Calif. (4a)
- Payne, Dale, Phoenix, Ariz. (2a)
- Payne & Dolan, Inc., Chicago, Ill. (24b)
- Payne & Dolan of Wisconsin, Inc., Milwaukee, Wis. (21c)
- Payne, Frank A., & Son, Orinda, Calif. (4a)
- Payne, G. J., Co., Inc., Los Angeles, Calif. (4d)
- Payne & Harris, Chattanooga, Tenn. (41a)
- Peabody & Co., Seattle, Wash. (46b)
- Pearce, Frank S., Co., Rockford, Ill. (12b)
- Pearson Constr. Co., Inc., Benton Harbor, Mich. (21b)
- Pecel, B., & Sons, North Hollywood, Calif. (4d)
- Peck, C. L., Los Angeles, Calif. (4d)
- Peck & Udell Constr. Co., The, Cleveland, Ohio (34c)
- Peck, W. D., & Co., Inc., Houston, Texas (42d)
- Peckham Road Corp., White Plains, N. Y. (31d)
- Peden Constr. Co., Inc., Greenville, S. C. (32a)
- Pedersen Bros., Inc., Montevideo, Minn. (22a)
- Pederson, P. O., Inc., Minneapolis, Minn. (22a)
- Peira, U., & Son, San Francisco, Calif. (4b)
- Peirce Constr. Co., Toledo, Ohio (34d)
- Pellicione, D., & Co., Weirton, W. Va. (47a)
- Pelligreen Constr. Co., St. Louis, Mo. (24c)
- Pelphrey & Basham, Inc., Fort Worth, Texas (42f)
- Pelphrey, L. W., Co., Gladewater, Texas (42f)
- Pelphrey, W. O., Fort Worth, Texas (42f)
- Pemberton Bldrs., Inc., Plant City, Fla. (9c)
- Penepacker, Frank, Portland, Oreg. (36a)
- Penker, Constr. Co., The, Cincinnati, Ohio (34b)
- Pennell & Haigler Constr. Co., Lenoir, N. C. (32a)
- Pennington & Winter Constr. Co., Oklahoma City, Okla. (42j)
- Penny, M. N., Lawrence, Kans. (15b)
- Pentzien, Inc., Omaha, Nebr. (26b)
- Penzel Constr. Co., Jackson, Mo. (24b)
- Perelli Contr. Co., Inc., Trenton, N. J. (29a)
- Perini, B., & Sons, Inc., Pittsburgh, Pa. (37c)
- Perkins Bros., Portland, Oreg. (36a)
- Perkinson, Henry L., Constr. Co., St. Louis, Mo. (24b) (24c)
- Perlmutter, Abe, Constr. Co., Inc., Denver, Colo. (5a)
- Permanent Bldrs., Inc., Clarksburg, W. Va. (47a)
- Permanent Constr. Co., Chicago, Ill. (12a)
- Perrillat-Rickey Constr. Co., Inc., New Orleans, La. (17a)
- Perrin, J. Kennon, Co., Richmond, Va. (45a)
- Perry, Arthur F., Co., Jacksonville, Fla. (9a)
- Perry, B. F., Akron, Ohio (34a)
- Perry Constr. Co., Chicago, Ill. (12a)
- Perry, J. W., San Antonio, Texas (42f)
- Persun Constr. Co., Huntington, W. Va. (47a)
- Perusini Constr. Co., Homewood, Ala. (1a)
- Peters, A. J., & Son, San Jose, Calif. (4b)
- Peters Constr. Co., Milwaukee, Wis. (48a)
- Peters, Paul C., Co., Toledo, Ohio (34b)
- Petersen, A. V., Co., Portland, Oreg. (36b)
- Petersen, Lawrence, Constr. Co., St. Paul, Minn. (22a)
- Petersen, N. A., Constr. Co., Austin, Minn. (22a)
- Petersen, Wm., Seattle, Wash. (46b)
- Peterson Bros., Laurens, Iowa (14a)
- Peterson, C. A., & Sons, Rock Rapids, Iowa (14b)
- Peterson, C. Norman, Constr., Berkeley, Calif. (4a)
- Peterson, Conrad O., Canby, Minn. (22a)
- Peterson Constr. Co., Minneapolis, Minn. (22a)
- Peterson Constr. Co., Dallas, Texas (42a)
- Peterson, Dale R., & Co., Inc., Seattle, Wash. (46b)
- Peterson, E. H., & Son, Richmond, Calif. (4b)
- Peterson, Edward, Company, Omaha, Nebr. (N)
- Peterson, Etlin E., Casper, Wyo. (49a)
- Peterson, Garbi & Joseph, Inc., North Little Rock, Ark. (3a)
- Peterson, Geo. W., Los Angeles, Calif. (4d)
- Peterson, H. M., & Co., Portland, Oreg. (36a)
- Peterson, O. G., San Leandro, Calif. (4b)
- Petry, N. G., Constr. Co., Denver, Colo. (5a)
- Petsch, Walton H., Spokane, Wash. (46c)
- Pettyjohn, F. S., Alamosa, Colo. (5b)
- Pettyjohn, John P., & Co., Lynchburg, Va. (45a)
- Pew, Arthur, Constr. Co., Atlanta, Ga. (10a)
- Pew Constr. Co., Missoula, Mont. (25b)
- Pfotzer, E. & E. J., Roanoke, Va. (45a)
- Pfutzenreuter, Henry, & Sons, Inc., Chicago, Ill. (12a)
- Phelps-Drake Co., Inc., Minneapolis, Minn. (22a)
- Phelps, Judson H., San Antonio, Texas (42e)
- Phelps-Wagner Bldrs., Battle Creek, Mich. (21b)
- Phend & Brown, Milford, Ind. (13a)
- Phillips, Alton V., Seattle, Wash. (46a)
- Phillips, C. S., Petaluma, Calif. (4a)
- Phillips Constr. Co., Lancaster, S. C. (32a)
- Phillips, John W., Corpus Christi, Texas (42i)
- Phoenix Constr. Co., Inc., Bakersfield, Calif. (4d)
- Phoenix-Tempe Stone Co., Phoenix, Ariz. (2a)
- Piazza, Leo F., Paving Co., San Jose, Calif. (4b)
- Pickard Constr. Co., Long Beach, Calif. (4d)
- Pickett & Nelson, Idaho Falls, Idaho (11a)
- Pickitt, Harry, Allegan, Mich. (21c)
- Pickler, M. C., Constr. Co., Inc., Aberdeen, N. C. (32a)
- Piedmont Constr. Co., Inc., Winston-Salem, N. C. (32a)
- Piehl, Myron T., Williams Bay, Wis. (48b)
- Pieler Constr. Co., Seattle, Wash. (46a)
- Pierson Contr. Co., Saginaw, Mich. (21c)
- Pike & Hill, Diablo, Calif. (4a)
- Pine Flat Contrs., Sanger, Calif. (4b)
- Pinner, Arthur, Jr., Los Angeles, Calif. (2a)
- Pinnix, R. H., Gastonia, N. C. (32a)
- Piombo Constr. Co., San Francisco, Calif. (4b)
- Pioneer Constr. Corp., Las Vegas, Nev. (27b)
- Pioneer Constrs., Inc., Tucson, Ariz. (2a)
- Pioneer Contr. Co., Memphis, Tenn. (23a)
- Pioneer Contract & Supply Co., Baton Rouge, La. (17d)
- Pipe Line Constr. & Drilling Co., Camp Hill, Pa. (42m)
- Pipe Line Constrs., Bakersfield, Calif. (4d)
- Piracci Constr. Co., Inc., Baltimore, Md. (19a)
- Pittsburgh-Des Moines Steel Co., Des Moines, Iowa & Pittsburgh, Pa. (14a) (37c)
- Plank, J. C., Houston, Texas (42d)

A.G.C. DIRECTORY

Plate Constr. Co., Inc., Parkersburg, W. Va. (47a)
 Plath, Eric E., Spokane, Wash. (46e)
 Platoff Constr. Co., Louisville, Ky. (16b)
 Platt Contr. Co., Inc., East Cambridge, Mass. (20b)
 Platte Valley Constr. Co., Grand Island, Nebr. (26b)
 Player Realty & Constr. Co., Fayetteville, N. C. (32a)
 Plewe Constr. Co., Salt Lake City, Utah (43a)
 Plozai, Jos., Inc., Detroit, Mich. (21c)
 Plummer, J. Lee, Inc., Sewickley, Pa. (37c)
 Plunkett, North H., & Co., Long Beach, Calif. (4d)
 Plymate, Clay, Co., Inc., Oklahoma City, Okla. (35b)
 Poe, T. W., & Sons, Durham, N. C. (32a)
 Pohl, Jos. L., Nevada, Mo. (24b)
 Pohlman & Wilbanks, Monroe, La. (17c)
 Poirier & McLane Corp., New York, N. Y. (29a)
 Poley-Abrams Corp., Brookline Village, Mass. (20b)
 Polino, Sam G., & Co., Elkins, W. Va. (47a)
 Pollard, M. E., Bossier City, La. (17c)
 Pollock, Geo., Co., Sacramento, Calif. (4b) (4d)
 Pomeroy, J. H., & Co., Inc., San Francisco, Calif. (4b) (50a)
 Ponsford Bros., El Paso, Texas (L)
 Popejoy, Glenn, Ulysses, Kans. (15b)
 Porath, Julius, & Son Co., Detroit, Mich. (21c)
 Port City Constr. Co., Inc., Lake Charles, La. (17c)
 Port Constr. Co., Port Angeles, Wash. (36a) (46a)
 Porter-DeWitt Constr. Co., Poplar Bluff, Mo. (23a) (24b)
 Porter, E. D., Midland, Texas (42i)
 Porter, Geo. S., Denver, Colo. (5a)
 Porter, J. R., Constr. Co., Phoenix, Ariz. (2a)
 Porter, Wm. H., Co., Inc., Watertown, Mass. (20b)
 Porterfield-Binger Constr. Co., Youngstown, Ohio (37c)
 Portland Tug & Barge Co., Portland, Oreg. (36a)
 Posthumus, Gerritt, Wayne, Mich. (21c)
 Poston Sand & Gravel, Lawton, Okla. (35b)
 Potashnick, R. B., Cape Girardeau, Mo. (12c) (23a) (24b) (42m)
 Potter-DeWitt Corp., Pavilion, N. Y., (31d)
 Potter-Horn, Inc., Boston, Mass. (20b)
 Potter, John W., Fort Worth, Texas (42c)
 Potter-Shackelford Constr. Co., Greenville, S. C. (32a)
 Potts & Callahan Constr. Co., Baltimore, Md. (19b)
 Potts, Fred E., Co., Los Angeles, Calif. (4d)
 Pound, Murphey, Constr. Co., Columbus, Ga. (10a)
 Powell Bros., Inc., Ft. Lauderdale, Fla. (9b)
 Powell, E. C., Great Falls, Mont. (25a)
 Powell, L. D., Constr. Co., Memphis, Tenn. (41c)
 Power, Chas. A., Spokane, Wash. (46c)

Powers, T. F., Constr. Co., Fargo, N. Dak. (33a)
 Powers-Thompson Constr. Co., Joliet, Ill. (12c) (13a)
 Pozzo Constr. Co., Ltd., Los Angeles, Calif. (4d)
 Prassel, Victor, San Antonio, Texas (42c)
 Prater Constr. Co., Harrisonville, Mo. (24b)
 Price, Vido S., & Glenn Graham, Los Angeles, Calif. (4d)
 Prepakt Concrete Company, The, Cleveland, Ohio & Seattle, Wash. (N) (46a)
 Prescott Constr. Co., Inc., Washington, D. C. (8a)
 Price Constr. Co., Marshall, Texas (42n)
 Price, H. C., Co., Bartlesville, Okla. (42m)
 Price, Lyle, Flagstaff, Ariz. (2a)
 Price & Price, Inc., Lafayette, Ind. (13b)
 Price, W. E., Constr. Co., Oklahoma City, Okla. (35a)
 Price, W. T., Dredg. Corp., Miami, Fla. (9b)
 Prichard, Thos. J., Jr., Fresno, Calif. (4a)
 Priester Constr. Co., Davenport, Iowa (14b)
 Princeville Stone Co., Princeville, Ill. (12c)
 Progressive Builders Associated, Inc., Midland, Texas (L)
 Progressive Bldrs., Inc., Pennsauken, N. J. (N)
 Progressive Constr. Co., Inc., New Orleans, La. (17a)
 Proksch Constr. Co., Iron River, Mich. (21c)
 Propst, Ben B., Concord, N. C. (32a)
 Propst Constr. Co., Inc., Concord, N. C. (32a)
 Provo Bros., Inc., Syracuse, N. Y. (31d)
 Psaty & Fuhrman, Inc., New York City (31c)
 Public Constr. Co., Denton, Texas (42f)
 Puget Sound Bridge & Dredg. Co., Seattle, Wash. (46a) (46b)
 Puget Sound Constr. Co., Tacoma, Wash. (46d)
 Pugh Constr. Corp., San Pedro, Calif. (4d)
 Pugh, John T., Rochester, Ind. (13b)
 Pullen & Owens, Nashville, Tenn. (32a)
 Purdy Constr. Co., The, Mansfield, Ohio (34d)
 Purington, O. D., Co., Inc., Providence, R. I. (38a)
 Purtell, Harold, Constr. Co., St. Paul, Minn. (22a)
 Purtz & Dutton, Norton, Kans. (15b)
 Putney, John H., Constr. Co., Oklahoma City, Okla. (35a)
 Putter, Frank A., Tucson, Ariz. (2a)
 Pyle, J. E., Little Rock, Ark. (3a)
 Pyramid Constr. Co., Wilmington, N. C. (32a)

Quad City Constr. Co., Inc., Rock Island, Ill. (12c) (14a)
 Quealy Excavating & Wrecking Co., Ft. Dodge, Iowa (14a)
 Quick, W. J., New Iberia, La. (17f)
 Quinlan Constr. Co., Kansas City, Mo. (24a)
 Quinn & Conant, Los Angeles, Calif. (4d)
 Quinn Constr. Co., Kansas City, Mo. (24b)
 Quinn, E. L., Constr. Co., Gastonia, N. C. (32a)
 Quinn-Robbins Co., Boise, Idaho (11a)
 Quisile Constr. Co., Fort Worth, Texas (42c)

R

R & M Constr. Co., Central Point, Oreg. (36a)
 R. & R. Constr. Co., Alton, Ill. (12d)
 Rabalais, E. E., & Son, Bunkie, La. (17f)
 Radich & Fergusson, Inc., Burbank, Calif. (4d)
 Radkovich, Wm., Co., Los Angeles, Calif. (4d)
 Rados, Steve P., Los Angeles, Calif. (4d)
 Radtke, Wm., & Son, Gilroy, Calif. (4b)
 Raff & Dexter, Lansing, Mich. (21c)
 Rafferty, John E., Jr., Inc., Philadelphia, Pa. (37d)
 Ragner-Benson, Inc., Pittsburgh, Pa. (37b)
 Ragner Bros., Pittsburgh, Pa. (37c)
 Rahm, John F., Inc., East Chicago, Ind. (13b)
 Raines, J. A., Muskogee, Okla. (35b)
 Raisch, A. G., Co., San Rafael, Calif. (4b)
 Raisch, A. J., Paving Co., San Jose, Calif. (4b)
 Ralph & Horwitz, Portland, Oreg. (36b)
 Rambo Constr. Co., Fort Worth, Texas (42c)
 Ramey Constr. Co., Inc., Amarillo, Texas (42g)
 Ramljak, M., Los Angeles, Calif. (4d)
 Ramsey, A. A., & Son, Shelby, N. C. (32a)
 Ramsey Bros. Bldrs., Reno, Nev. (27a)
 Ramsey Constr. Co., Corvallis, Oreg. (36a)
 Rand Constr. Co., Bakersfield, Calif. (4d)
 Rand Constr. Co., Rapid City, S. Dak. (40a)
 Randall Bldg. Co., Amarillo, Texas (42g)
 Rankin, D. W., Inc., Cleveland, Ohio (34c)
 Ranon & Jimenez, Tampa, Fla. (9c)
 Ransdell Constr. Co., Dallas, Texas (42a)
 Ransome Co., Emeryville, Calif. (4b)
 Rapp, Robt. M., Co., Santa Rosa, Calif. (4b)
 Rapp, Wm. D., Santa Rosa, Calif. (4b)
 Rappoli, Edmund J., Co., Inc., Cambridge, Mass. (20b)
 Ratcliff Bros. Constr. Co., Liberty, Texas (42h)
 Ratcliff & Cornelius Constr. Co., Fort Worth, Texas (42c)
 Ratcliff, J. E., Alexandria, La. (17f)
 Rau Constr. Co., Kansas City, Mo. (24a)
 Rawlings, Wm. S., Co., Kansas City, Mo. (24a)
 Raymond, Ace S., Logan, Utah (43a)
 Raymond Concrete Pile Co., New York, N. Y.; Los Angeles, Oakland, & San Francisco, Calif.; Pittsburgh, & Philadelphia, Pa.; Washington, D. C.; Atlanta, Ga.; Baltimore, Md.; Boston, Mass.; Chicago, Ill.; Portland, Oreg.; Detroit, Mich.; Kansas City, & St. Louis, Mo.; Syracuse, N. Y.; Houston, Texas; Miami, Fla.; Cleveland, Ohio & Salt Lake City, Utah (N) (10a) (36a)
 Rea Constr. Co., Charlotte, N. C. (32a)
 Rea, Wayne L., Corpus Christi, Texas (42i)
 Read, A. H., Co., Cheyenne, Wyo. (26b) (49a)
 Read Constr. Co., Cheyenne, Wyo. (5b) (49a)
 Read, Fred W., Twin Falls, Idaho (11a)
 Ready-Mix Concrete Co., Reno, Nev. (27a)
 Reagan, Wm. M., & Sons, Inc., Columbia, S. C. (32a)

(Numerals after names indicate the Chapter in which member belongs—See Key to Listing of A. G. C. Units—page 217). N—National Member (page 315). L—Local Member.

- Reardon, J. J., Constr. Co., Enid, Okla. (35a)
Reason, Edw., Pittsburgh, Pa. (37c)
Reddington, J. D., Indianapolis, Ind. (13b)
Red Eagle Corp., The, Columbus, Ohio (34d)
Red River Constr. Co., Shreveport, La. (42j)
Reece Constr. Co., Scandia, Kans. (15b)
Reed & Abee, Inc., Asheville, N. C. (32a)
Reed Constr. Corp., Miami Beach, Fla. (9b)
Reed, Duffy, Constr. Co., Twin Falls, Idaho (11a) (36a)
Reed, M. T., Constr. Co., Jackson, Miss. (23b)
Reed & Martin, Inc., Fairbanks, Alaska (50a)
Reese, Herbert, Greenbush, Minn. (22a)
Reese, Morrison W., San Jose, Calif. (4a)
Reeves, F. M., & Sons, Austin, Texas (42f)
Reeves, J. R., Sacramento, Calif. (4b)
Regan, C. T., Constr. Co., The, Cleveland, Ohio (34c)
Regen, J. B., Nashville, Tenn. (41d)
Regenhardt Constr. Co., Cape Girardeau, Mo. (12c) (24b)
Reich, Hugh D., Austin, Texas (42k)
Reid, A. R., Co., San Francisco, Calif. (4b)
Reid Contr. Co., Inc., Woodbridge, N. J. (20a)
Reid & Hope, Suffolk, Va. (45a)
Reid, R. J., Contr. Co., Birmingham, Ala. (23a)
Reiff, Daniel L., Norristown, Pa. (37d)
Reilly, Michael H., New Orleans, La. (17a)
Reimer, C. F., Constr. Co., Inc., Marshalltown, Iowa (14b)
Reimers & Jolivet, Portland, Oreg. (36b)
Reindollar, I., & Son, York, Pa. (37a)
Reinecke-Tarlton, Inc., Fayetteville, N. C. (32a)
Reinhardt Bros., Russell, Kans. (15b)
Reinhardt, Milton, & Son, Russell, Kans. (15b)
Reis, A. F., Topeka, Kans. (15b)
Reisinger, Robt. L., & Co., Milwaukee, Wis. (48a)
Reliance Truck Co., Phoenix, Ariz. (2a)
Remmet Constr. Co., Palo Alto, Calif. (4d)
Rendle, Jas. B., Co., Malden, Mass. (20a)
Rendle, Roy B., & Co., Inc., East Boston, Mass. (20a)
Reniger Constr. Co., Lansing, Mich. (N) (21b)
Reno Constr. Co., Overland Park, Kans. (15b) (24b)
Rentenbach & Wright, Inc., Kingsport, Tenn. (41e)
Rentor Co., Inc., Grand Island, Nebr. (26b)
Renz, Geo. C., Gilroy, Calif. (4b)
Replogle, C. F., Circleville, Ohio (34d)
Repp & Mundt, Inc., Columbus, Ind. (13b)
Rexroad, L. W., & Son, Salina, Kans. (15b)
Rexroth & Rexroth, Bakersfield, Calif. (4d)
Reynolds Constr. Co., Springville, Utah (43a)
Reynolds, D. H., Inc., Coral Gables, Fla. (9b)
Reynolds, Roland T., Anaheim, Calif. (4d)
Reynolds & Walker, Inc., Twin Falls, Idaho (11a)
Reynolds & Williams, Little Rock, Ark. & Shreveport, La. (3a) (17e)
Rheiner, A. E., & Co., San Antonio, Texas (42e)
Rheiner, D. J., Constr. Co., San Antonio, Texas (42e)
Rheinstein Constr. Co., Inc., New York City (31c)
Rhoades Constr. Co., Inc., Newton, Kans. (15b)
Rhoades-Shofner Constr. Co., Inc., Los Angeles, Calif. (4d)
Rhodes, Jon K., Constr. Co., Fort Worth, Texas (42c)
Rice Bros., Inc., Marysville, Calif. (4b)
Rice, Jos. N., Inc., New Haven, Conn. (6a)
Richards, Floyd, Amarillo, Texas (42g)
Richards, Gene, Inc., Fresno, Calif. (4b)
Richardson Constr. Co., Birmingham, Ala. (1a)
Richardson Constr. Co., Fort Worth, Texas (42j)
Richardson Constr. Co., Inc., Cincinnati, Ohio (34b)
Richardson, Lou, Miles City, Mont. (25a) (4a)
Richter Transfer Co., Cincinnati, Ohio (34b)
Rickey, Horace B., Inc., Lafayette, La. (17f)
Ricks, J. E., Constr. Co., Austin, Texas (42i) (42k)
Rider Constr. Co., Charleroi, Pa. (37c)
Riedesel Constr. Co., Billings, Mont. (25a) (25b)
Riegel, A. V., Inc., White Plains, N. Y. (31d)
Riess, John, New Orleans, La. (17a)
Rieth-Riley Constr. Co., Goshen, Ind. (13a) (21c)
Rife, A. J., Constr. Co., Dallas, Texas (42a)
Riffle, David T., Inc., Pittsburgh, Pa. (37b)
Riha Constr. Co., San Diego, Calif. (4c)
Riley, Wm. A., Paving & Constr. Co., Inc., St. Louis, Mo. (24c)
Rinderknecht, R. W., Co., Cedar Rapids, Iowa (14b)
Riney, L. W., Constr. Co., Hannibal, Mo. (24b)
Ringland-Johnson, Inc., Des Moines, Iowa (14b)
Ringwald, W. H., & Sons Co., Chillicothe, Ohio (34d)
Rinner, George, Constr. Co., Inc., Topeka, Kans. (15a)
Rippy, E. J., & Sons, New Castle, Colo. (5b)
Risk Pipe & Constr. Co., Nebraska City, Nebr. (26b)
Ritchie, A., Co., Walla Walla, Wash. (46c)
Ritchie Bros. Constr. Co., Wichita, Kans. (15b)
Ritchie, Walter L., Malden, Mass. (20b)
Ritter Bros., Harrisburg, Pa. (37a)
Rives Constr. Co., Birmingham, Ala. (1a)
Roach Constr. Co., Albuquerque, N. Mex. (30b)
Road Contr. Co. of Westfield, Westfield, N. J. (29a)
Robbins, John A., Co., Inc., Philadelphia, Pa. (37d)
Roberts Bros., Chariton, Iowa (14a)
Roberts Constr. Co., Lincoln, Nebr. (26b)
Roberts, Jack A., Birmingham, Ala. (1a)
Roberts, Jas. A., Houston, Texas (42d)
Roberts, John H. C., Reno, Nev. (27a)
Roberts & Long Constr. Co., Mobile, Ala. (1a)
Roberts, Lyle, Inc., Coral Gables, Fla. (9b)
Robertson, Alex. Co., Paramount, Calif. (4d)
Robertson, H. W., Inc., Sacramento, Calif. (4a)
Robertson, Hay & Wallace, Portland, Oreg. (36b)
Robertson-Henry Co., Huntington, W. Va. (47a)
Robertson, W. E., Los Angeles, Calif. (4d)
Robie Constr. Co., Inc., Manchester, N. H. (28a)
Robinson Bros. Contrs., Inc., Asheville, N. C. (32a)
Robinson, Jack, Bend, Oreg. (36a)
Robison Constr. Co., Pittsburgh, Pa. (37b)
Robson, R. M., Portland, Oreg. (36a)
Rocho, Edw. M., Constr. Co., Inc., Freeport, Ill. (12c)
Rock City Constr. Co., Nashville, Tenn. (41d)
Rock Hill Asphalt & Constr. Co., Clayton, Mo. (24b)
Rockford Black Top Constr. Co., Rockford, Ill. (12c)
Rockhold & Rockhold, Jonesboro, La. (17g)
Rock Road Constr. Co., Chicago, Ill. (13a)
Roden Constr. Co., Fort Worth, Texas (42c)
Rodgers, H. N., & Sons Co., Memphis, Tenn. (23a)
Roediger Constr., Inc., Cleveland, Ohio (34c)
Roehl Constr. Co., Knoxville, Tenn. (41b)
Roehm Bros., Inc., Terre Haute, Ind. (13b)
Roel Constr. Co., Fargo, N. Dak. (33a)
Rogers, Chas. J., Inc., Detroit, Mich. (21a) (21c)
Rogers Constr. Co., Smithfield, N. C. (32a)
Rogers Constr. Co., Portland, Oreg. (36a)
Rogers-DeVaun, Inc., Wilmington, N. C. (32a)
Rogers, H. A., & Sons, Lebo, Kans. (15b)
Rogers, Howard E., Knoxville, Tenn. (41b)
Rogers, Ira, Topeka, Kans. (15b)
Rogers, Jos. W., Succasunna, N. J. (29a)
Rogers, Platt, Inc., Denver, & Pueblo, Colo. (5a) (5b)
Rohleder, Chas. F., Philadelphia, Pa. (37d)
Rohr Housing Corp., Minneapolis, Minn. (22a)
Roland Constr. Co., Alexandria, La. (17e)
Rolandi, F. S., Jr., Inc., San Francisco, Calif. (4b)
Romano, Toney, Co., Seattle, Wash. (46a)
Romero & Theall, Youngsville, La. (17f)
Rommel, Geo. H., Co., Louisville, Ky. (16b)
Romney, G. Maurice, Salt Lake City, Utah (43a)
Rooney, Frank J., Inc., Miami, Fla. (9b)
Rorick Constr. Co., Omaha, Nebr. (26a)
Roscoe, W. P., Co., Billings, Mont. (49a)
Rose, D. J., & Son, Rocky Mount, N. C. (32a)
Rose, W. P., Constr. Co., Atlanta, Ga. (10a)
Rosewall, T. H., Watsonville, Calif. (4a)
Ross, J. A., & Co., Chicago, Ill. (12c)
Ross, Jas. Assos., Inc., Concord, N. H. (28a)
Ross Sand Co., Concordia, Kans. (15b)
Rottmayer Constr. Co., Akron, Ohio (34a)
Rounds, Chas. J., Los Angeles, Calif. (4d)
Rounds Constr. Co., Rapid City, S. Dak. (40a)
Rouse, R. N., & Co., Goldsboro, N. C. (32a)
Rousseau, Oliver M., Co., San Francisco, Calif. (4a) (4b)
Rowe, Dan, Marshall, Minn. (22a)
Rowley Constr. Co., Pawtucket, R. I. (38a)
Rowley, Fred C., & Sons, Inc., Hammond, Ind. (13b)
Royden, H. L., Phoenix, Ariz. (2a)

Ruby Constr. Co., Madisonville, Ky. (L)
 Ruby, H. W., Sacramento, Calif. (4b)
 Ruby, M. E., San Marcos, Texas (42f)
 Ruckman-Hansen, Inc., Fort Wayne, Ind. (13a)
 Ruddy, Bart J., Inc., Utica, N. Y. (L)
 Ruddy, M. J., & Son, Modesto, Calif. (4b)
 Rue Constr. Co., Bismarck, N. Dak. (33a) (40a)
 Ruebel, S. A., & Co., Cincinnati, Ohio (34b)
 Rueth, Leo, & Sons, Inc., Hammond, Ind. (13b)
 Ruff, John K., Co., Baltimore, Md. (19a)
 Rule, C. F., Constr. Co., Nashville, Tenn. (41d)
 Rumsey Bros. Pipe Line Constr. Co., Wichita, Kans. (42m)
 Rumsey & Co., Seattle, Wash. (46a)
 Rundell, Frank R., Austin, Texas (42k)
 Runels, R. E., Constr. Co., Lowell, Mass. (20b)
 Rupert Constr. Co., Wilmington, Del. (7a)
 Rupp Bros., Inc., Kittanning, Pa. (37c)
 Ruscon Constr. Co., Charleston, S. C. (32a)
 Rush Constr. Co., Enterprise, Oreg. (36a)
 Rushlight Automatic Sprinkler Co., Portland, Oreg. (36a)
 Russell-Gillet Co., Cle Elum, Wash. (46a)
 Russell, T. Edgie, Frederick, Md. (19b)
 Rust Constr. Corp., Evansville, Ind. (13b)
 Rust Engineering Co., The, Pittsburgh, Pa.: Washington, D. C.; New York, N. Y. & Birmingham, Ala. (N)
 Rust, Henry R., Inc., Philadelphia, Pa. (37d)
 Rutherford, Geo. A., Co., The, Cleveland, Ohio (34c)
 Ryan Constr. Corp., Evansville, Ind. (13a)
 Ryan Contr. Corp., New York City (31c)
 Ryan, J. H., Albuquerque, N. Mex. (30a)
 Ryan, J. T., Oelwein, Iowa (14a)
 Ryan-Richards Co., Oklahoma City, Okla. (35b)
 Ryan & Ryan, Inc., Washington, Ind. (13a)
 Rymont Corp., Chicago, Ill. (12a)

S

S. A. E. Co., Redwood City, Calif. (4b)
 S & B Constr. Co., Coral Gables, Fla. (9b)
 S & F Constr. Co., Yardley, Wash. (46c)
 S. M. H. Constr. Co., Peoria, Ill. (12c)
 S & W Constr. Co., Memphis, Tenn. (41c)
 S & W Constr. Co., Inc., Las Cruces, N. Mex. (30b)
 Sablain, Ray, Lansing, Mich. (21c)
 Sachs & Kaufman, Detroit, Mich. (21c)
 Sackett, Allen E., Hood River, Oreg. (36a)
 Saigh, N. A., Co., Inc., San Antonio, Texas (42m)
 Saine Co., Orlando, Fla. (9c)
 St. John Co., The, Miami, Fla. (9b)
 St. Louis Steel Erection Co., St. Louis, Mo. (24c)
 Salem Sand & Gravel Co., Salem, Oreg. (36a)
 Salen, Albert H., Menominee, Mich. (21d)
 Saliba, N. M., Co., Los Angeles, Calif. (4d)
 Salina Constr. & Supply Co., Inc., Syracuse, N. Y. (31d)
 Salley, W. C., Monroe, La. (17g)
 Salmon Bros., Inc., Netcong, N. J. (29a)

Salmond, Scrimshaw Constr. Co., Arlington, N. J. (L)
 Samuel, B. H., & Sons, Portland, Oreg. (36a)
 Sanctis Constr., Inc., Pittsburgh, Pa. (37c)
 Sandall, Arne, Spokane, Wash. (46e)
 Sanders, Marthame, & Co., Atlanta, Ga. (10a)
 Sandford, N. Ralph, Hoisington, Kans. (15b)
 Sandstrom & Hafner, Duluth, Minn. (22a)
 Sanford Constr. Co., Inc., Sanford, N. C. (32a)
 Sanford, W. H., Corp., Terre Haute, Ind. (13b)
 Sangamo Constr. Co., Springfield, Ill. (12c)
 Sani Constr. Co., Des Moines, Iowa (14a)
 Sankey Bros., Inc., Springfield, Ill. (12c)
 Sanneman Bros. Constr. Co., Topeka, Kans. (42i)
 San-Ore Constr. Co., McPherson, Kans. (15b) (26b)
 Santa Barbara Crane Service, Santa Barbara, Calif. (4d)
 San Xavier Rock & Sand Co., Tucson, Ariz. (2a)
 Sapp, J. Hilbert, Inc., West Palm Beach, Fla. (9e)
 Sargent, B. H., West Branch, Mich. (21c)
 Sargent Constr. Co., Saginaw, Mich. (21c)
 Sargent Excavating Co., Inc., Topeka, Kans. (15b)
 Sargl, G., Beaumont, Texas (42h)
 Sartorio, Peter, San Francisco, Calif. (4a)
 Sather & Sons, Spokane, Wash. (46c)
 Sauer's Constr. Co., Inc., St. Paul, Minn. (22a)
 Sauter, Godfrey, Philadelphia, Pa. (37d)
 Savage, John L., Carson City, Nev. (27a)
 Savin Constr. Corp., The, East Hartford, Conn. (31d)
 Sawallisch Constr. Co., El Reno, Okla. (35b)
 Sawyer Constr. Co., Boston, Mass. (20b)
 Sawyer Constr. Co., Hampton, Va. (45a)
 Sawyer, Paul, Sand & Gravel Co., Holdrege, Nebr. (26b)
 Saxton, A. H., & Sons, Corvallis, Oreg. (36a)
 Scalzo, Thos., Co., Seattle, Wash. (46a)
 Scandrol Constr. Co., Rockford, Ill. (12b)
 Scarsella Bros., Seattle, Wash. (46a)
 Schader, A. D., San Francisco, Calif. (4b)
 Schaefer, Henry R., Co., Davenport, Iowa (14b)
 Scheirer, Wilbur C., Frankfort, Ind. (13a)
 Schell, Fred W., San Francisco, Calif. (4a)
 Schenck, R. E., Co., Indianapolis, Ind. (13b)
 Schenkel, Wm. P., & Sons, Fort Wayne, Ind. (13b)
 Scherrer, Dan, Constr. Co., Kansas City, Kans. (15b)
 Scheumann & Johnson, Seattle, Wash. (46a)
 Schiekli, J. U., & Bros., Louisville, Ky. (16b)
 Schildberg Constr. Co., Greenfield, Iowa (14a)
 Schilling, G. E., Engr. & Constr. Co., Inc., Reno, Nev. (27a)
 Schimkat & Kost, Onida, S. Dak. (40a)
 Schirmer-Peterson Co., The, Cleveland, Ohio (34c)
 Schirmer-Schneider Co., The, Cleveland, Ohio (34c)
 Schloss, Wm. L., Asphalt Paving Co., Cleveland, Ohio (34c)

Schmeling, E. W., & Sons, Inc., Rockford, Ill. (12b)
 Schmidt Bros., Long Beach, Calif. (4d)
 Schmidt Constr. Co., Grand Junction, Colo. (5b)
 Schmidt Constr. Co., Winfield, Iowa (14a)
 Schmidt, Leo W., Co., Cleveland, Ohio (34c)
 Schmidt, Oscar H., Inc., Topeka, Kans. (15b)
 Schmitt, H., & Son, Inc., Milwaukee, Wis. (48a)
 Schneider, Al J., Co., Shively, Ky. (16b)
 Schneider Constr. Co., Houston, Texas (42d) (42b)
 Schneider, H. W., Parkersburg, W. Va. (47a)
 Schnuerle, A. W., Aberdeen, S. Dak. (40a)
 Schoolnick, Louis, Constr. Co., Hartford, Conn. (6a)
 Schroeder & Co., Inc., Sun Valley, Calif. (4d)
 Schroeder, H. F., & Sons, Arcadia, Iowa (14a)
 Schroeder, Paul, Faribault, Minn. (22a)
 Schultz & Lindsay Constr. Co., Fargo, N. Dak. (33a)
 Schumacher, Herman, Hull, Iowa (14b)
 Schumacher, Peter, & Sons, Inc., Mishawaka, Ind. (13b)
 Schumaker Constr. Co., Michigan City, Ind. (13b)
 Schuman Constr. Co., Kohler, Wis. (48b)
 Schutt, R. L., Co., Indianapolis, Ind. (13a)
 Schwab, P. Earl, Winona, Minn. (22a)
 Schwaderer, E. B., & Co., Cass City, Mich. (21c)
 Schwake, M. G., Constr. Co., Gardnerville, Nev. (27a)
 Schwalbe, F. R., & Son, La Crosse, Wis. (48b)
 Schwartz, David, Russell, Kans. (15b)
 Schweiger Constr. Co., Kansas City, Mo. (24a)
 Schweitzer, Adrian L., Osborne, Kans. (15b)
 Schwertner, Chas. H., & Son, Philadelphia, Pa. (37d)
 Schwoppe Bros., San Antonio, Texas (42f)
 Schworm, Ivan W., Grawn, Mich. (21c)
 Schye & Sullivan, White Sulphur Springs, Mont. (25a)
 Sciaba & Co., Boston, Mass. (20b)
 Scothorn Constr. Co., Cherokee, Iowa (14a)
 Scott Constr. Co., Thomasville, Ga. (10a)
 Scott, F. L., & Son, San Antonio, Texas (42e)
 Scott, W. H., Inc., Franklin, Va. (32a) (45a)
 Scroggin, J. C., Constr. Co., Nashville, Tenn. (41d)
 Scrufari Constr. Co., Inc., Niagara Falls, N. Y. (31a)
 Scullen, S. A., Waterford, N. Y. (31d)
 Sculley, C. F., Constr. Co., St. Paul, Minn. (22a)
 Scully Bros., Cincinnati, Ohio (34b)
 Seaboard Constr. Co., Chelsea, Mass. (20a)
 Seabright Constr. Co., Wheeling, W. Va. (47a)
 Seaman Co., Pittsburgh, Pa. (37b)
 Sears, M. J., Denver, Colo. (5b)
 Seastrunk, F. J., Elec. Co., Inc., Columbia, S. C. (32a)
 Seattle Contr. Co., Seattle, Wash. (46a)
 Secor Bldg. Co., Inc., Oklahoma City, Okla. (35a)
 Security Bldg. Co., Inc., Rockford, Ill. (12b)

(Numerals after names indicate the Chapter in which member belongs—See Key to Listing of A. G. C. Units—page 217). N—National Member (page 315). L—Local Member.

Seelye, Inc., Seattle, Wash. (46b)
 Seines, C. S., Constr. Co., Inc., Centralia, Wash. (46d)
 Seiple, Stanford C., Sunbury, Pa. (37a)
 Selander, Edw., Lakewood, Colo. (5b)
 Sell, F. H., Constr. Co., Wichita, Kans. (15a)
 Sellen, John H., Constr. Co., Seattle, Wash. (46b)
 Selley, D. R., Nashville, Tenn. (41d)
 Selmer Co., The, Green Bay, Wis. (48b)
 Selzer-Ornst Co., Milwaukee, Wis. (48a)
 Semands, Martin B., Inc., Conroe, Texas (42d)
 Senior and Palmer, Inc., New York, N. Y. (L) (29a)
 Senne, George, & Co., Topeka, Kans. (15a)
 Serafini Constr. Co., Inc., Binghamton, N. Y. (31d)
 Serodino, V. P., Inc., Cincinnati, Ohio (13a)
 Service Constr. Co., Indianapolis, Ind. (13b)
 Sessinghaus & Ostergaard, Inc., Erie, Pa. (37a)
 Seth Lumber Co., Inc., Lincolnton, N. C. (32a)
 Settecasì & Chillura, Tampa, Fla. (9c)
 Settergren, E. E., Portland, Oreg. (36b)
 Seward & Shurtleff, Fort Worth, Texas (42c)
 Shackelford, O. L., Kinston, N. C. (32a)
 Shaffer, Leonard, Co., Philadelphia, Pa. (37d)
 Shandles, H. M., Philadelphia, Pa. (37d)
 Shannon, Chas., Co., Butte, Mont. (25a)
 Shappert Engr. Co., Belvidere, Ill. (12c)
 Sharp & Fellows Contr. Co., Los Angeles, Calif. (4d) (30a)
 Sharp, Otis W., & Son, Inc., New Orleans, La. (17a)
 Sharpe, W. L., Contr. Co., Memphis, Tenn. (41c)
 Sharrock, J. A., & Sons, Marshall, Texas (42n)
 Sharrock & Pursel, Casper, Wyo. (49a)
 Shattuck, L. H., Inc., Manchester, N. H. (28a)
 Shaw Constr. Co., Texarkana, Ark. (3a)
 Shaw, Donald F., Los Angeles, Calif. (4d)
 Shaw, J. A., Constr. Co., Fargo, N. Dak. (33a)
 Shaw, M. E., Contr. Co., Macon, Ga. (10a)
 Shaw, N. F., Inc., Anchorage, Alaska (50a)
 Shea Co., The, Alhambra, Calif. (4d)
 Shearer, A. C., Co., Chapel Hill, N. C. (32a)
 Shears', J. H., Sons, Hutchinson, Kans. (15b)
 Sheehan Constr. Co., Indianapolis, Ind. (13a)
 Sheehan Pipe Line Constr. Co., Tulsa, Okla. (42m)
 Sheets, W. A., & Sons, Inc., Fort Wayne, Ind. (13b)
 Shelby Constr. Co., Inc., Shelbyville, Ind. (13b)
 Shelby Constr. Co., Inc., St. Louis, Mo. (24c)
 Shelby, Peter P., Los Angeles, Calif. (4d)
 Sheldon, R. W., Constr. Co., West Palm Beach, Fla. (9c)
 Shelgren, Roy A., St. Paul, Minn. (22a)
 Shelton Mill & Constr. Co., Las Vegas, Nev. (27b)
 Shelton, W. C., Co., The, Lawton, Okla. (35a)
 Shenk, Henry, Co., Erie, Pa. (37a)
 Sherman Machine & Iron Works, Oklahoma City, Okla. (42j)
 Sherry-Richards Co., Chicago, Ill. (12a)

Sherwood, A. G., Constr. Co., Independence, Kans. (15b)
 Sherwood Constr. Co., Wichita, Kans. (15b)
 Shingledecker, H. C., Pontiac, Mich. (21c)
 Shinn Constr. Co., North Miami, Fla. (9b)
 Shipp, C. H., Constr. Co., Durham, N. C. (32a)
 Shirey, C. W., Waterloo, Iowa (14a)
 Shirley Constr. Co., Omaha, Nebr. (14a)
 Shirley Constr. Co., Minot, N. Dak. (33a)
 Shirley-Herman Co., Inc., Buffalo, N. Y. (31a)
 Shockey, Howard, & Sons, Inc., Winchester, Va. (45a)
 Shockley, C. G., Constr. Co., Columbia, S. C. (32a)
 Shoemaker, Frank L., Sturgis, Mich. (21b)
 Shoemaker, R. M., Philadelphia, Pa. (37d)
 Shook, Chas. H., Dayton, Ohio (34b)
 Shore, Henry, Co., Littleton, Colo. (5b)
 Short, Harry E., Tile Co., Denver, Colo. (5a)
 Shotwell, J. D., Tacoma, Wash. (46d)
 Showalter, F. L., Inc., Lynchburg, Va. (32a) (45a)
 Shrum, Clyde M., Clarksburg, W. Va. (47a)
 Shuck, E. F., Seattle, Wash. (46b)
 Shuman Constr. Co., Boston, Mass. (20b)
 Shuper, M. E., Co., Stockton, Calif. (4b)
 Shuttle, A., & Co., Inc., Jenkintown, Pa. (47a)
 Siderits Constr. Co., Milwaukee, Wis. (48a)
 Siegfried, Jos. E., Lafayette, Ind. (13b)
 Siert, John, Chinook, Mont. (25b)
 Siesel Constr. Co., Milwaukee, Wis. & Pittsburgh, Pa. (37b) (48a)
 Sievers Constr. Co., Sedalia, Mo. (21a)
 Silva & Hill Constr. Co., Los Angeles, Calif. (4d)
 Silver, E. M., Albuquerque, N. Mex. (30a)
 Silver State Constr. Co., Inc., Fallon, Nev. (27a)
 Simek, Frank, Bottineau, N. Dak. (33a)
 Simmons, J. L., Company, Inc., Decatur, Ill. & Indianapolis, Ind. (L) (13b)
 Simon, W. A., Inc., Wilmington, N. C. (32a)
 Simonds, E. T., Constr. Co., Carbondale, Ill. (12c)
 Simpson, Wm. A., Constr. Co., The, Los Angeles, Calif. (4d)
 Sinclair, John M., Providence, R. I. (38a)
 Singleton, Musick & Co., Amarillo, Texas (42g)
 Sinnock, Pomeroy, Stockton, Calif. (4b)
 Sioux Falls Construction Company, Sioux Falls, S. Dak. (L)
 Sira, Ben, & Co., Dallas, Texas (42f) (42j)
 Siri, Arthur B., Inc., Santa Rosa, Calif. (4b)
 Sjoberg, N. H., & Son, Oakland, Calif. (4a)
 Sjoboen Bros., Olympia, Wash. (46d)
 Sjoström & Sons, Inc., Rockford, Ill. (12b)
 Skelton, Ray W., Co., Inc., Minneapolis, Minn. (22a)
 Skilken, Jos., & Co., Columbus, Ohio (34b)
 Skilton Engr. & Constr. Corp., Louisville, Ky. (16b)
 Skinker & Garrett, Washington, D. C. (8a)
 Skinner, Dean, Austin, Texas (42f)
 Skinner, M. L., New Bern, N. C. (32a)
 Skinner & Ruddock, Inc., Charleston, S. C. (32a)
 Skousen, D. D., Albuquerque, N. Mex. (30a)
 Skousen-Hise Contr. Co., Albuquerque, N. Mex. (30a)

Skousen, W. R., Mesa, Ariz. (2a)
 Skrainka Constr. Co., University City, Mo. (24c)
 Slate, W. A., Seattle, Wash. (46b)
 Slatmyer, Henry G., & Son Constr. Co., The, Cleveland, Ohio (34c)
 Sletten Constr. Co., Great Falls, Mont. (25b)
 Sloan Constr. Co., Inc., Greenville, S. C. (32a)
 Slotnick, M., Corp., Boston, Mass. (20b)
 Slotnik, J., Co., Boston, Mass. (20b)
 Slovak Bros., Corpus Christi, Texas (42i)
 Smale & Robinson, Inc., Wilmington, Calif. (4d)
 Small, C. E., Dallas, Texas (42j)
 Small, Jas. H., & Co., Jacksonville, Fla. (9a)
 Small, M. M., Topeka, Kans. (15b)
 Smalley, D. R., & Sons, Inc., Celina, Ohio (13a)
 Smalling's, R. H., Sons, Macon, Ga. (10a)
 Smallman, Ralph A., & Co., Inc., Birmingham, Ala. (1a)
 Smiley, A. F., Constr. Co., Pawtucket, R. I. (38a)
 Smith, Albert L., Fort Worth, Texas (42c)
 Smith, Alfred A., Ferndale, Mich. (21a)
 Smith & Anderson, Fairbanks, Alaska (50a)
 Smith, Ben F., Co., Pasadena, Calif. (4d)
 Smith Bros., Noble, Okla. (35b)
 Smith Bros. Contrs., Leavenworth, Kans. (15a)
 Smith Bros. General Contrs., Inc., Vancouver, Wash. (36a)
 Smith Bldg. Co., Inc., Waco, Texas (42L)
 Smith & Buzby, Philadelphia, Pa. (37d)
 Smith, C. T., & Son, Lenoir, N. C. (32a)
 Smith, Chas. D., & Son, Inc., Fond du Lac, Wis. (48b)
 Smith, Chas. M., Thermopolis, Wyo. (49a)
 Smith Constr. Co., Albany, Ga. (10a)
 Smith Constr. Co., Inc., Derby, Conn. (6a)
 Smith, Constr. Co., Inc., Ft. Madison, Iowa (14b)
 Smith Contr. Corp., Fort Worth, Texas (42m)
 Smith-Cooke Constr. Co., St. Louis, Mo. (24c)
 Smith, DeCorse & Christhill, Baltimore, Md. (19a)
 Smith, Ed., Engr. & Constr. Co., Syracuse, N. Y. (31d)
 Smith, Enoch, Sons Co., Salt Lake City, Utah (43a)
 Smith, Frank W., Constr. Co., San Mateo, Calif. (4b)
 Smith, Gerald, Constr. Co., Memphis, Tenn. (23a)
 Smith, H. C., Co., Los Angeles, Calif. (4d)
 Smith, Harold, St. Helena, Calif. (4b)
 Smith, Howard L., Cleveland, Ohio (34c)
 Smith, Inc., Fargo, N. Dak. (33a)
 Smith, Ivy H., Co., Jacksonville, Fla. (9a)
 Smith, Jas. S., Co., Inc., Newton, Mass. (20b)
 Smith & Johnson, Inc., Indianapolis, Ind. (13a)
 Smith, L. C., San Mateo, Calif. (4b)
 Smith, Linwood, Lake Village, Ark. (3a)
 Smith, Luke E., Denver, Colo. (5b)
 Smith & Moon, Winfield, Kans. (15a)
 Smith, Noland, Constr. Co., El Reno, Okla. (35b)
 Smith, Paul, Constr. Co., Tampa, Fla. (9c)
 Smith-Phillips Co., Portland, Oreg. (36b)
 Smith, R. B., Houston, Texas (42f)

A.G.C. DIRECTORY

- Smith, R. McDonald, Jacksonville, Fla. (9a)
 Smith, R. T., Atlanta, Ga. (10a)
 Smith, Ray L., & Son, Inc., El Dorado, Kans. (42m)
 Smith, Reginald E., Harlingen, Texas (42o)
 Smith, Robt. H., & Co., Houston, Texas (42d)
 Smith, Roger, Waco, Texas (42j)
 Smith, W. C., Inc., Portland, Ore. (36a)
 Smith, W. C., of California, Inc., Long Beach, Calif. (4d)
 Smith, W. R., & Son, Nashville, Tenn. (41d)
 Smith, Wm. A., Constr. Co., Houston, Texas (42d)
 Smith, Wm. A., Contr. Co., Inc., Kansas City, Kans. (15b) (46c)
 Smith, Wm. A., Contr. Co. of California, Oakland, Calif. (4b)
 Smithsonian Constr. Co., Inc., Charleston, W. Va. (47a)
 Smolark, J. A., Ft. Washington, Pa. (37d)
 Smyth, Norman A., Co., Charlotte, N. C. (32a)
 Sneed, E. B., Constr. Co., Austin, Texas (42k)
 Snider, W. C., Danville, Ky. (16a)
 Snyder, Chas. B., Great Falls, Mont. (25a)
 Snyder Constr. Co., Ft. Lauderdale, Fla. (9b)
 Snyder Constr. Co., Inc., Vincennes, Ind. (13b)
 Snyder, J. W., Co., Chicago, Ill. (12a)
 Snyder, Lawrence J., Corp., Muncie, Ind. (13b)
 Soderberg, A. W., Constr. & Bldg. Co., Wichita, Kans. (15a)
 Soller, John, Constr. Co., Davenport, Iowa (14b)
 Sollitt Constr. Co., Inc., South Bend, Ind. (13b) (47a)
 Sollitt, Geo., Constr. Co., Chicago, Ill. (12a)
 Solomon, David, Inc., Washington, D. C. (8a)
 Somers, F. L., Klamath Falls, Ore. (36a)
 Somerville Constr. Co., Ada, Mich. (42m)
 Sommer, I. M., & Co., San Francisco, Calif. (4a)
 Songroth Bros., Mountain View, Calif. (4b)
 Sooner Constr., Muskogee, Okla. (35b)
 Sordoni Constr. Co., Inc., Wilkes-Barre, Pa. (37a)
 Sorensen Bros., Inc., Albert Lea, Minn. (22a)
 Sorensen-Gross Constr. Co., Flint, Mich. (21b)
 Sorensen, Peter, Redwood City, Calif. (4b)
 Sorenson, J. C., Trent, S. Dak. (40a)
 Sorenson, P. C., & Co., Inc., Dallas, Texas (42j)
 Sothern Constr. Co., Grand Island, Nebr. (26a)
 Soule Constr. Co., Pensacola, Fla. (9d)
 Soule, Henry M., Co., Pawtucket, R. I. (38a)
 Soule, O. L., Portland, Ore. (36a)
 Sound Constr. & Engr. Co., Seattle, Wash. (46b) (46c)
 South Texas Constr. Co., Corpus Christi, Texas (42f)
 Southampton Hauling Co., St. Louis, Mo. (24c)
 Southeast Constr. Co., Inc., Pine Bluff, Ark. (3a)
 Southeastern Constr. Co., Charlotte, N. C. & Charleston, W. Va. (32a) (47a)
 Souther, M. E., Constr. Co., St. Paul, Minn. (22a)
 Southern Amiesite Asphalt Co., Inc., Birmingham, Ala. (1a)
 Southern Bldrs., Inc., Shreveport, La. (17b)
 Southern Bldrs., Inc., Fayetteville, N. C. (32a)
 Southern Constr. Co., Charlotte, N. C. (32a)
 Southern Constr. Co., Inc., Augusta, Ga. (10a)
 Southern Contr. Co., Austin, Texas (42f)
 Southern Quarries & Contr. Div. of the New York Coal Sales Co., Columbus, Ohio (34d)
 Southern States Constr. Co., Columbia, S. C. (32a)
 Southwest Gen. Constr. Co., Dallas, Texas (42f)
 Southwest Paving Co., Sun Valley, Calif. (4d)
 Southwest Paving Co., Houston, Texas (42j)
 Southwestern Constr. Co., Houston, Texas (42d)
 Southwestern Engr. Co., Los Angeles, Calif. (4d)
 Southwestern Norcam, Dallas, Texas (42j)
 Sparks, C. O., & Mundo Engr. Co., Inc., Los Angeles, Calif. (4d)
 Sparks Constr. Co., Oskaloosa, Iowa (14b)
 Sparks Constr. Co., Inc., Coral Gables, Fla. (9b)
 Sparks, W. P., Jr., Waco, Texas (42L)
 Sparling Constr. Co., Greensboro, N. C. (32a)
 Spears Constr. Co., Modesto, Calif. (4b)
 Spedale, L. A., Baton Rouge, La. (17d)
 Speer, Paul W., Inc., Los Angeles, Calif. (4d)
 Spencer, C. B., New Orleans, La. (17a)
 Spencer & Co., Santa Fe, N. Mex. (30a)
 Spencer Constr. Co., Spencer, Iowa (14b)
 Spencer Constr. Co., Carrollton, Texas (42f)
 Spencer, E. B., Constr. Co., Waterloo, Iowa (14a)
 Spencer, Paul, San Dimas, Calif. (4d)
 Spencer, Warren, Inc., Washington, D. C. (8a)
 Spencer, White & Prentiss, Inc., New York, N. Y. (L)
 Spicer Co., Los Angeles, Calif. (4d)
 Spieker, Henry J., Co., The, Toledo, Ohio (34c)
 Spier, L. C., Bastrop, La. (17g)
 Spillane Constr. Co., Lakewood, Colo. (5b)
 Splady & Haagenon, Minneapolis, Minn. (22a)
 Spong Constr. Co., Columbia, S. C. (32a)
 Spotts & Co., Newberry, S. C. (32a)
 Springmeyer Investment & Constr. Co., Provo, Utah (43a)
 Sproles, W. R., Constr. Co., Kingsport, Tenn. (41e)
 Spruce, Geo. T., Fayetteville, N. C. (32a)
 Stack Constr. Co., Milwaukee, Wis. (48a)
 Stackhouse, A. V., Co., Indianapolis, Ind. (13b)
 Stacy Bros., Inc., Johnson City, Tenn. (32a)
 Stacy, Geo. R., Tulelake, Calif. (4b)
 Stahr Co., The, Minneapolis, Minn. (22a)
 Stamey Constr. Co., Hutchinson, Kans. & Oklahoma City, Okla. (15b) (35b)
 Standard Asphalt Paving Co., Spokane, Wash. (46c)
 Standard Bitulithic, New Castle, Del. (7a)
 Standard Bitulithic Co., Newark, N. J. (29a)
 Standard Bldg. Co., San Francisco, Calif. (4a)
 Standard Constr. Co., Bozeman, Mont. (25a)
 Standard Constr. Co., Tacoma, Wash. (46d)
 Standard Constr. Co., Inc., Minneapolis, Minn. (22a)
 Standard Dredg. Corp., Los Angeles, Calif. (4d)
 Standard Engr. Co., Inc., Washington, D. C. (L)
 Standard Iron Works, San Diego, Calif. (4c)
 Standard Materials Co., Modesto, Calif. (4b)
 Standard Paving Co., Tulsa, Okla. (35b)
 Standard Paving Co., Fort Worth, Texas (42f)
 Standard Structures, Inc., San Rafael, Calif. (4b)
 Standard Water & Sewage Prods., Inc., Sacramento, Calif. (4b)
 Stanley, Walter A., Constr. Co., Inc., Ossining, N. Y. (L)
 Stannard Constr. Co., Wichita, Kans. (15b)
 Stansfield Constr. Co., Tampa, Fla. (9c)
 Stanton-Reed Co., Los Angeles, Calif. (4d)
 Stapp, Floyd D., Constr. Co., Rapid City, S. Dak. (40a)
 Star Constr. Co., Miami, Fla. (9b)
 Staring & Galbraith, Oakland, Calif. (4b)
 Stark, Don R., & Co., Inc., Ottumwa, Iowa (14b)
 Starling Constr. Co., Austin, Texas (42k)
 Starr Constr. Co., Greenville, Miss. (23a)
 Starr, H. A., Portland, Ore. (36a)
 Starrett Brothers and Eken, Incorporated, New York, N. Y.; San Francisco, & Los Angeles, Calif. (N) (4a) (4d)
 State Constr. Co., Los Angeles, Calif. (4d)
 State Constr. Co., Seattle, Wash. (46a)
 States Constr. Co., Des Moines, Iowa (14a)
 States Constr. Co., Inc., Newport News, Va. (45a)
 Staunton, Thos., Great Falls, Mont. (25a)
 Stavn, H. L., Co., Inc., Hibbing, Minn. (22a)
 Steadman Constr. Co., Kingsport, Tenn. (41e)
 Stebbins, Blanchard, Manchester, N. H. (28a)
 Stebbins Constr. Co., Tulsa, Okla. (35b)
 Steed Bros., Alhambra, Calif. (4d)
 Steel City Constr. Co., Inc., Birmingham, Ala. (1a)
 Steele Bros., Dorchester, Nebr. (26b)
 Steele, Jack, Constr. Co., Morrisville, Pa. (37d)
 Steele, Pownall & Gebhardt, Philadelphia, Pa. (37d)
 Steelman Constr. Co., Oklahoma City, Okla. (35b)
 Steenberg Constr. Co., Inc., St. Paul, Minn. (22a)
 Steigerwald, Ed., & Sons, Inc., Milwaukee, Wis. (48a)
 Steilberg, H. J., & Son, Shively, Ky. (16b)
 Stein Constr. Co., Chattanooga, Tenn. (41a)

(Numerals after names indicate the Chapter in which member belongs—See Key to Listing of A. G. C. Units—page 217). N—National Member (page 315). L—Local Member.

- Steinberg Constr. Co., Tulsa, Okla. (35b)
 Steiner Constr. Co., Baltimore, Md. (19a)
 Steinle-Wolfe, Inc., Fremont, Ohio (L)
 Stendell, Elvin C., San Francisco, Calif. (4a)
 Stephens Constr. Co., Parkersburg, W. Va. (47a)
 Stephens, Edgar, & Sons, Inc., Cairo, Ill. (12d) (23a)
 Stephens, J. S., & Sons, Tampa, Fla. (9c)
 Stephens Trucking Co., Stockton, Calif. (4b)
 Stettler, Ernest, & Sons, Logan, Utah (43a)
 Stevens, A. W., Contr. Co., Burlington, Wash. (46a)
 Stevens, Ray, Co., The, Kalamazoo, Mich. (21b)
 Stevenson Constr. Co., Salem, Oreg. (36a)
 Stewart, H. R., & Co., Asheville, N. C. (32a)
 Stewart, Harvey H., Charlotte, N. C. (32a)
 Stewart, James, & Co., Inc., New York, N. Y.; Sparrows Point, Md.; Chicago, Ill. & Dallas, Texas (N) (31c) (42a) (19a)
 Stewart, R. K., & Son, High Point, N. C. (32a)
 Stewart and Williams, Inc., Augusta, Maine (L)
 Stibbard Constr. Co., Detroit, Mich. (21a)
 Stiefel, W. Herbert, Aiken, S. C. (32a)
 Stigler Constr. Co., Stigler, Okla. (35b)
 Stilfield, Ben K., Constr. Co., Inc., Rock Island, Ill. (12c)
 Stillwell Constr. Co., Macon, Ga. (10a)
 Stimm, H. F., Inc., Buffalo, N. Y. (31a)
 Stimson Corp., Dallas, Texas (42j)
 Stobs Bros. Constr. Co., Miami, Fla. (9b)
 Stock & Grove, Inc., Anchorage, Alaska (50a)
 Stocke & Olson, Rochester, Minn. (22a)
 Stocker Gravel & Constr. Co., Highland, Ill. (12c)
 Stocker, L. O., Co., St. Louis, Mo. (24c)
 Stockholm, Chas., & Sons, San Francisco, Calif. (4a)
 Stocks Mill & Supply Co., Las Vegas, Nev. (27b)
 Stockton Constr. Co., Inc., Stockton, Calif. (4b)
 Stockton, J. C., & Son, Augusta, Ga. (32a)
 Stoen's Landscape & Constr. Co., Seattle, Wash. (46a)
 Stofflet & Tillotson, Philadelphia, Pa. (37d)
 Stolte, Inc., Oakland, Calif. (4b) (4d)
 Stolz, R. A., Constr. Co., New Hampton, Iowa (14b)
 Stone, Arthur E., Pleasantville, N. J. (29a)
 Stone, L. L., Inc., Lawrence, Ind. (13a)
 Stone & Webster Engineering Corp., New York, N. Y.; Boston, Mass.; Chicago, Ill.; Pittsburgh, Pa.; Los Angeles, & San Francisco, Calif. & Houston, Texas (N) (4b) (4d)
 Storen, W. J., Co., Detroit, Mich. (21a) (21c)
 Storms & Frew Constr. Co., Kansas City, Mo. (15b) (24b)
 Stoud, Wm. J., Philadelphia, Pa. (37d)
 Stoudt, H. E., & Son, Inc., Allentown, Pa. (37a)
 Stovall Constr. Co., Dallas, Texas (42j)
 Stow, Mulford, Miami, Fla. (9b)
 Stowe, Virgil, Welch, W. Va. (47a)
 Stowell, F. M., Tulsa, Okla. (42j)
 Straco Constr. Co., Camden, N. J. (29a)
 Strain & Brown, Inc., San Angelo, Texas (42f)
 Strain, C. Hunter, San Angelo, Texas (42f)
 Straits Constr. Co., St. Ignace, Mich. (21c)
 Strand & Sons, Seattle, Wash. (46b)
 Strandberg, L. B., & Son Co., Chicago, Ill. (12a) (31d)
 Strandberg, Stewart O., Co., Chicago, Ill. (12a)
 Strizek, Jere, Sacramento, Calif. (4b)
 Strom Constr. Co., Grand Rapids, Mich. (21b)
 Strom & Strom, Muskegon, Mich. (21b)
 Strong Co., Springville, Utah (43a)
 Strong & Harmon, Raleigh, N. C. (32a)
 Strong, "Les," Constr. Co., Whitney Point, N. Y. (31d)
 Strong & Macdonald, Inc., Tacoma, Wash. (36a) (46d)
 Strother-Barge Co., Atlanta, Ga. (10a)
 Strother, J. P., Constr. Co., Eldon, Iowa (14a)
 Strother & Riehm, Inc., Eldon, Iowa (14a)
 Stroud-Seabrook, Chula Vista, Calif. (4c)
 Stroup, D. Glenn, Gastonia, N. C. (32a)
 Struck Constr. Co., Louisville, Ky. (16b)
 Strunk Bros., Tiskilwa, Ill. (12c)
 Strunk Constr. Co., Somerset, Ky. (16a)
 Stuart, T., & Sons Co., Watertown, Mass. (20a)
 Studebaker, C. A., Constr. Co., Uniondale, Ind. (13a)
 Studebaker, Tom, Constr. Co., Granite City, Ill. (12d)
 Stump & Stradinger, Mobridge, S. Dak. (40a)
 Stuntz-Yeoman Co., Inc., Delphi, Ind. (13a)
 Sturm & Co., Inc., Philadelphia, Pa. (37d)
 Suber & Co., Inc., Whitmire, S. C. (32a)
 Subgrade Engr. Corp., Bell, Calif. (4d)
 Suburban Engr. & Constr. Co., Branchville, Md. (19b)
 Suits, Harry J., Watkins Glen, N. Y. (31d)
 Sullivan, A. L., Birmingham, Ala. (1a)
 Sullivan & Cozart, Louisville, Ky. (16b)
 Sullivan, D. A., Parkwater, Wash. (45c)
 Sullivan-Foster, Inc., New Bedford, Mass. (20b)
 Sullivan, Frank P., Inc., East Haven, Conn. (6a)
 Sullivan, Long & Hagerty, Inc., Birmingham, Ala. (1a)
 Sully-Miller Contr. Co., Long Beach, Calif. (4d)
 Summerbell Roof Structures, Los Angeles, Calif. (4d)
 Summit Constr. Co., Rapid City, S. Dak. (40a) (49a)
 Summit Constr. & Fixture Co., Akron, Ohio (34a)
 Sumner, Chas. V., Dallas, Texas (42a)
 Sumner Constr. Co., Nashville, Tenn. (41d)
 Sumson, J. M., & Sons, Springville, Utah (43a)
 Sundt, M. M., Constr. Co., Tucson, Ariz. (2a)
 Superior Constr. Co., Gary, Ind. (13b)
 Superior Constr. Co., Seattle, Wash. (46a)
 Surace, J. P., Constr. Co., Seattle, Wash. (46a)
 Susquehanna Paving Materials Co., Sunbury, Pa. (37c)
 Sussex, R. H., Bellingham, Wash. (46a)
 Suttle, Chas. M., Oklahoma City, Okla. (35a)
 Sutton Co., Inc., Radford, Va. (47a)
 Swalling Constr. Co., Inc., Anchorage, Alaska (50a)
 Swan Constr., Inc., Cincinnati, Ohio (34b)
 Swanburg Constr. Corp., Manchester, N. H. (28a)
 Swanson, Arnold, & Co., Hastings, Nebr. (26b)
 Swanzy, Ralph, Weslaco, Texas (42o)
 Swatek Constr. Co., Oklahoma City, Okla. (42j)
 Sweet, J. S., Co., Cambridge City, Ind. (13a)
 Sweitzer, J. S., & Son, Inc., St. Paul, Minn. (22a)
 Swenson, Carl N., Co., San Jose, Calif. (4a)
 Swenson Carlson Bldrs., Inc., East Chicago, Ind. (13b)
 Swenson Constr. Co., Kansas City, Mo. (15b) (24a)
 Swett, E. D., Winchester, N. H. (28a)
 Swift Constr. Co., Columbus, Ga. (10a)
 Swigart, John J., Co., Torrance, Calif. (4d)
 Swilling & Boyd, Pineville, La. (42j)
 Swinerton & Walberg Co., San Francisco, Calif. & Denver, Colo. (4a) (5a)
 Swingen Constr. Co., Grand Forks, N. Dak. (33a)
 Swisher, Mark, Inc., Cleveland, Ohio (34c)
 Switzer & Hayes, Arvada, Colo. (5b)
 Swords-McDougal Co., Peoria, Ill. (12c)
 Syar, C. M., Vallejo, Calif. (4b)

T

- T. G. K. Constr. Co., Inc., Phoenix, Ariz. (2a)
 T-S Constr. Engrs., Inc., Los Angeles, Calif. (4d)
 Taber-Carmody Co., Grand Rapids, Mich. (21c)
 Tabone & Barbera, Pittston, Pa. (37a)
 Tacoma Constr. & Engr. Co., Tacoma, Wash. (46d)
 Taggart Constr. Co., Cody, Wyo. (25a) (49a)
 Taggart, Henry M., Inc., Philadelphia, Pa. (37d)
 Tait, W. C., San Francisco, Calif. (4a)
 Talarico Contr. Corp., Herkimer, N. Y. (31d)
 Talbot-Myers Constr. Corp., Winchester, Ky. (16a)
 Tamminga, John S., Denver, Colo. (5a)
 Tankersley Constr. Co., Oklahoma City, Okla. (35a)
 Tanner Bros. Constr. Co., Phoenix, Ariz. (2a)
 Tarlton, C. L., Contr. Co., St. Louis, Mo. (5b) (12d) (24b) (24c)
 Tate, C. G., Constr. Co., Concord, N. C. (32a)
 Tavares Constr. Co., La Jolla, Calif. (4c)
 Taylor Bros. Co., Inc., Birmingham, Mich. (21c)
 Taylor, C. B. & M. R., Decorah, Iowa (14a)
 Taylor Constr. Co., Miami, Fla. (9b)
 Taylor Constr. Co., West Columbia, S. C. (32a)
 Taylor Constr. Co., Inc., Johnson City, Tenn. (41c)
 Taylor, E. F., Co., Inc., Goldsboro, N. C. (32a)
 Taylor, F. H., Co., Detroit, Mich. (21a)
 Taylor, H. J., Constr. Co., Salina, Kans. (15b)
 Taylor, Jas. T., & Son, Inc., Fort Worth, Texas (42c)
 Taylor, John R., Co., Greensboro, N. C. (32a)

A.G.C. DIRECTORY

- Taylor & Kretz, Arlington, Calif. (4d)
Tee Constr. Co., Las Vegas, Nev. (27b)
Teer, Nello L., Co., Durham, N. C. (32a)
Teichert, A., & Son, Inc., Sacramento, Calif. (N) (4b) (4d)
Tellepsen Constr. Co., Houston, Texas (42d) (42h)
Temple, Arthur, Jr., & Assoc., Inc., Lufkin, Texas (42d)
Templeton, C. E., Houston, Texas (42d)
Templeton-Cannon, San Angelo, Texas (L)
Templeton, E. J., Everett, Wash. (46a)
Tennefos Constr. Co., Fargo, N. Dak. (40a)
Terry & Steadman, Inc., Bay City, Mich. (21c)
Terteling, J. A., & Sons, Inc., Boise, Idaho (N) (11a)
Tester, John, & Son, Inc., Washington, D. C. (8a)
Testman, John T., Albuquerque, N. Mex. (30b)
Teton Constr. Co., Cheyenne, Wyo. (49a)
Teufel, Geo. E., Co., Seattle, Wash. (46b)
Texas Bitulithic Co., Dallas, Texas & New Orleans, La. (17e) (42f)
Texas-Gulf Constr. Co., Inc., Houston, Texas (42d)
Texas-Louisiana Contrs., Fort Worth, Texas (42m)
Theisen Bros., Osmond, Nebr. (26b)
Thibodeaux, Robt., Co., Inc., Baton Rouge, La. (17d)
Thiele Bros., Allen Grove, Wis. (48b)
Thise, C. P., Harlingen, Texas (42o)
Thomas, B. Miles, San Francisco, Calif. (4b)
Thomas, Bennett & Hunter, Inc., Westminster, Md. (19b)
Thomas Constr. Co., Ketchikan, Alaska (50a)
Thomas Constr. Co., Fresno, Calif. (4b)
Thomas Constr. Co., Billings, Mont. (25a)
Thomas, G. W., Drayage & Rigging Co., Inc., San Francisco, Calif. (4b)
Thomas & Guinn, Inc., Las Vegas, Nev. (27b)
Thomas J. B., Charlotte, N. C. (32a)
Thomas, J. O., Jr., Fort Worth, Texas (42c)
Thomas & Ratliff, Rogers, Texas (42f)
Thomas Rigging Co., Emeryville, Calif. (4b)
Thomason, C. Y., Co., Greenwood, S. C. (32a)
Thompson, A. R., Contr., Inc., Rutherfordton, N. C. (32a)
Thompson-Arthur Constr. Co., Greensboro, N. C. (32a)
Thompson Asphalt Co., Madison, Ill. (12c)
Thompson Constr. Co., Inc., Indianapolis, Ind. (13a)
Thompson, Donald, Modesto, Calif. (4a)
Thompson, E. S., Los Angeles, Calif. (4d)
Thompson, F. N., Charlotte, N. C. (32a)
Thompson, Frank, Jackson, Miss. (23b)
Thompson, J. A., & Son, Inglewood, Calif. (4d)
Thompson, J. M., Co., Raleigh, N. C. (32a)
Thompson, Jas., & Sons, Ames, Iowa (14b)
Thompson, Jim S., Oklahoma City, Okla. (35b)
Thompson & Morton Co., Kilgore, Texas (42n)
Thompson, O. G., & Sons, Burlington, N. C. (32a)
Thompson-Schmidt Co., The, Detroit, Mich. (21a)
Thompson-Starrett Co., Inc., New York, N. Y. & Boston, Mass. (20b) (31c)
Thompson & Street Co., Birmingham, Ala.; Atlanta, Ga. & Raleigh, N. C. (1a) (10a) (47a)
Thomsen-Abbott Constr. Co., Marshfield, Wis. (48b)
Thorburn & Logozo, Seattle, Wash. (46a)
Thorgersen & Erickson Co., Chicago, Ill. (12a)
Thorington Constr. Co., Inc., Richmond, Va. (45a)
Thorn Constr. Co., Inc., Springville, Utah (43a)
Thornton Constr. Co., Hancock, Mich. (21c)
Thrash Constr. Co., Inc., Houston, Texas (42d)
Thurman, John M., Borger, Texas (35a)
Thygesen, Henry, & Co., Albuquerque, N. Mex. (30a)
Tiberti, J. A., Constr. Co., Las Vegas, Nev. (27b)
Tidewater Construction Corporation, Norfolk, Va. (N)
Tidmarsh Engr. Co., Tucson, Ariz. (2a)
Tiffany Constr. Co., Phoenix, Ariz. (2a)
Till, Archie L., Yuba City, Calif. (4b)
Tillman, G. E., Co., Inc., Centralia, Ill. (12c)
Timber Structures, Inc., Portland, Ore. (36b)
Timmons Constr. Co., Amarillo, Texas (42g)
Tinker, H. G., Macon, Ga. (10a)
Tisdale & Collins Constr. Co., Beech Grove, Ind. (13a)
Tobin, Edwin J., Co., Berkeley, Calif. (4b)
Tobin, J. A., Constr. Co., Kansas City, Kans. (15b) (24b)
Tobin Quarries, Inc., Kansas City, Mo. (24b)
Tocci Bros. Constr. Co., Newtonville, Mass. (20b)
Todd, R. R., Santa Rosa, Calif. (4a)
Toebe, Walter, & Co., Lansing, Mich. (21c)
Tolboe & Harlin Constr. Co., Provo, Utah (43a)
Tolboe & Wootton Constr. Co., Provo, Utah (43a)
Tomei Constr. Co., Van Nuys, Calif. (4d)
Tomlinson & Hawley, Inc., Bridgeport, Conn. (6a)
Tomlinson, T. R., Doyle, La. (17e)
Tompkins, Chas. H., Co., Washington, D. C.; Dallas, & Fort Worth, Texas (N) (8a) (42c)
Tompkins-Curlett-Wunderlich, Salisbury, N. C. (32a)
Tonn & Blank, Inc., Michigan City, Ind. (13b)
Tornell Constr. Co., Tracy, Calif. (4a)
Torpey, Michael J., Inc., Woodside, N. Y. (31d)
Torrington Bldg. Co., The, Torrington, Conn. (6a)
Torvik & Sons Constr. Co., Decorah, Iowa (14a)
Tousley, H. D., Co., Inc., Indianapolis, Ind. (13b)
Tout, J. R., Co., Inc., Fresno, Calif. (4b)
Towles-Cline Constr. Co., Wilmington, N. C. (32a)
Towne Constr. Co., Philadelphia, Pa. (37d)
Townsend & Bottom, Inc., Ann Arbor, Mich. (21b)
Townsend & Elfret Co., Philadelphia, Pa. (37d)
Trager, Frank, Chillicothe, Mo. (24b)
Transocean Engr. Corp., San Lorenzo, Calif. (4b)
Travelodge Corp., The, San Diego, Calif. (4c)
Traverso, T. W., Seattle, Wash. (46a)
Traylor Bros., Inc., Evansville, Ind. (13a) (13b)
Tredennick-Billings Co., The, Boston, Mass. (20b)
Treppe Constr. Co., San Diego, Calif. (4c)
Tri-State Asphalt Corp., Martins Ferry, Ohio (34d)
Tri-State Constr. Co., Memphis, Tenn. (41c)
Tri-State Constr. Co., The, Indianapolis, Ind. (13a)
Tri-State Engr. Co., Benton, Ill. (12c)
Tri-State Excavating Co., Fargo, N. Dak. (33a)
Tri-States Constr. Co., Little Rock, Ark. (3a)
Triangle Bldg. Co., Inc., Idaho Falls, Idaho (11a)
Triangle Constr. Co., Sacramento, Calif. (4b)
Triangle Constr. Co., Boise, Idaho (11a)
Triangle Constr. Co., Kankakee, Ill. (12c)
Triangle Constr. Co., Greenville, S. C. (32a)
Triangle Rock & Gravel Co., San Bernardino, Calif. (4d)
Trier, Fred C., Constr. Co., Saginaw, Mich. (21b)
Trimble Co., The, Pittsburgh, Pa. (37b) (37c)
Trinidad Asphalt Mfg. Co., St. Louis, Mo. (12c)
Triple Cities Constr. Co., Inc., Binghamton, N. Y. (31d)
Triplett, F. A., Inc., Chester, S. C. (32a)
Tritt Bros., Belleville, Ill. (12c)
Trojan Constr. Co., Inc., Oklahoma City, Okla. (42m)
Trompeter Constr. Co., Peru, Ill. (12c)
Trotti & Thomson, Inc., Beaumont, Texas (42f)
Troup Bros., Inc., Miami, Fla. (9b)
Trousdale Constr. Co., Los Angeles, Calif. (4d)
Troxell, J. A., Enumclaw, Wash. (36a) (46a)
Tru-Mix Concrete Co., Medford, Ore. (36a)
Trueheart, J. C., Constr. Co., San Antonio, Texas (42j)
Trumbull-Nelson Co., Inc., Hanover, N. H. (28a)
Tuck, A. M., Greenwood, S. C. (32a)
Tuckahoe Constr. Co., Inc., Tuckahoe, N. Y. (31d)
Tuckman-Barbee Constr. Co., Inc., Washington, D. C. (8a)
Tudor Constr. Co., Alexandria, La. (17f)
Tuller Construction Company, The, Red Bank, N. J. (N)
Tully & Dinapoli, Inc., Flushing, N. Y. (31d)
Tully, John C., Co., Chicago, Ill. (12a)
Tulsa Rig, Reel & Mfg. Co., Tulsa, Okla. (35a) (35b)
Tunnichiff Constr. Co., Davenport, Iowa (14b)

(Numerals after names indicate the Chapter in which member belongs—See Key to Listing of A. G. C. Units—page 217). N—National Member (page 315). L—Local Member.

- Turchin, Robt. L., Inc., Miami Beach, Fla. (9b)
- Turgeon, E., Constr. Co., Inc., Providence, R. I. (38a)
- Turnbull, B. F., Inc., Seattle, Wash. (46b)
- Turner, C. H., Co., Pensacola, Fla. (9d)
- Turner Construction Co., New York, N. Y.; Fairmont Heights, Md.; St. Paul, Minn.; Philadelphia, & Pittsburgh, Pa.; Boston, Mass. & Chicago, Ill. (N) (8a) (12a) (20b) (22a) (31c) (37b) (37d) (48b)
- Turner Constr. Co., Memphis, Tenn. (41c)
- Turner, J. M., & Co., Inc., Roanoke, Va. (45a)
- Turner, Lee T., Washington, D. C. (8a)
- Turner, Luther A., & Son, Austin, Texas (42f)
- Turnquist, O. E., Constr. Co., Seattle, Wash. (46b)
- Tuttle, C. B., Co., Long Beach, Calif. (4b) (4d)
- Tuttle, Morton C., Co., Boston, Mass. (20b)
- Tvedt, L. A., Memphis, Tenn. (41c)
- Twaites, Ford J., Co., Los Angeles, Calif. (4d)
- Tway, R. R., Co., Oklahoma City, Okla. (35b)
- Twin Falls Constr. Co., Twin Falls, Idaho (11a)
- Tye & Wells, Eminence, Ky. (16a)
- Tyrone Gardens, Inc., St. Petersburg, Fla. (9c)
- Tyson, Dana R., Co., Sacramento, Calif. (4b)
- Tyson & Watters, Inc., Sacramento, Calif. (4b)
- U**
- Udesen, Robt., Denver, Colo. (5a)
- Uhl Constr. Co., Allison Park, Pa. (37b)
- Uhlhorn, W. B., Harlingen, Texas (42a)
- Ulland Bros., Austin, Minn. (22a)
- Underground Constr. Co., Oakland, Calif. (4b)
- Underseeth, Theo, Helena, Mont. (25b)
- Union Bldg. & Constr. Corp., Passaic, N. J. (29a)
- Union Constr. Co., Atlanta, Ga. (10a)
- Union Constr. Co., Des Moines, Iowa (14a)
- Union Constr. Co., Inc., Missoula, Mont. (25a)
- Union Paving Co., Philadelphia, Pa. (29a)
- United Bldg. Constr. Co., Philadelphia, Pa. (37d)
- United Concrete Pipe Corp., Baldwin Park, Calif. (4b) (4d)
- United Construction Co., Winona, Minn. & Long Beach, Calif. (N) (4d) (22a)
- United Constr. Co., Memphis, Tenn. (41c)
- United Contr. Co., Portland, Oreg. (36a)
- United Engineers & Constructors Inc, Philadelphia, Pa. (N)
- United States Constr. Corp., Anaheim, Calif. (4d)
- Universal Constr. Co., Kansas City, Mo. (24a)
- Universal Constr., Inc., Milwaukee, Wis. (48a)
- Unkefer Bros. Constr. Co., Philadelphia & Pittsburgh, Pa. (37b) (37d)
- Upchurch, W. K., Constr. Co., Montgomery, Ala. (1a)
- Upham, Dale, West Union, Iowa (14a)
- Upton-Lang Co., Erie, Pa. (37a)
- Ursprung, R. S., Co., Cleveland, Ohio (34c)
- Utah Construction Co., The, Ogden & Salt Lake City, Utah; Denver, Colo. & San Francisco, Calif. (N) (4b) (4d) (5a) (36a) (43a)
- Utah Constr. Co. & C. H. Leavell & Co., Los Alamos, N. Mex. (30b)
- Utilities Constr. Service, Inc., Seattle, Wash. (46a)
- Utility Bldrs., Inc., Great Falls, Mont. (25a)
- Utility Constr. Co., South Gate, Calif. (4d)
- Utility Constr. Co., Tacoma, Wash. (46d)
- Utility Constr. Co.; Div. of Aetna Ind. Corp., New Brunswick, N. J. (29a)
- Utility Contrs., Seattle, Wash. (46a)
- Utility Contrs., Inc., Wichita, Kans. (15b)
- Uiley, J. A., Co., Detroit, Mich. (21a)
- Uvalde Constr. Co., Dallas, Texas (42f)
- V**
- Vaclavick Constr. Co., El Campo, Texas (42d)
- Valle, Henrik, Co., Inc., Seattle, Wash. (46b) (50a)
- Valley Bldrs., Inc., Spring Valley, Ill. (12c)
- Valley Bldg. Co., Roswell, N. Mex. (30b)
- Valley Constr. Co., Seattle, Wash. (46a)
- Valley Crushing Co., Boise, Idaho (11a)
- Valley Engr. Co., St. Charles, Ill. (12c)
- Valley Engr. & Constr. Co., Grand Forks, N. Dak. (33a)
- Valley Paving & Constr. Co., Inc., Pismo Beach, Calif. (4b) (4d)
- Valley Trenching Co., Fresno, Calif. (4b)
- Van Bokkelen-Cole Co., Oakland, Calif. (4a)
- Van Buskirk, Harold, & Co., Inc., Houston, Texas (42d)
- Van Buskirk, Ira, & Sons, Hawarden, Iowa (14a)
- Vance Bros., Kansas City, Mo. (15b) (24b)
- Van Cleve Constr. Co., Houston, Texas (42d)
- Vandegrift, John I., Co., The, Cumberland, Md. (19b)
- Vander Veen, E. J., Grand Rapids, Mich. (21c)
- Vander Veen, P., & Sons, Grand Rapids, Mich. (21c)
- Vandivort Constr. Co., Wenatchee, Wash. (46b)
- Van Dusseldorp, Eben, Colfax, Iowa (14a)
- Van Eyck, T., Tampa, Fla. (9c)
- Vang, Geo., Inc., Pittsburgh, Pa. (37c)
- Van Kleeck, Wm., New Paltz, N. Y. (31d)
- Van Sant Bros., Inc., Wilmington, Del. (7a)
- Van Valkenburgh, N. P., & Co., South Gate & Sacramento, Calif. (4b) (4d)
- Van Winkle & Co., Atlanta, Ga. (10a)
- Van Winkle, W. F. & D. E., Golden, Colo. (5b)
- Vappi & Co., Inc., Cambridge, Mass. (20b)
- Vara Constr., Inc., Boston, Mass. (20b)
- Vardeman, T. R., & Son, Nacogdoches, Texas (42f)
- Varnum, Walter, Coeur d'Alene, Idaho (46c)
- Vasey Constr. Co., Carlsbad, N. Mex. (30b)
- Vaughan, Fell, North Little Rock, Ark. (3a)
- Vaughn & Taylor Constr. Co., Inc., Wichita Falls, Texas (42m)
- Vawter, Fane F., & Co., Des Moines, Iowa (14b)
- Veale Constr. Co., Seattle, Wash. (46b)
- Vecellio & Grogan, Beckley, W. Va. (47a)
- Vecellio, Oscar, Beckley, W. Va. (47a)
- Vega Engr. & Grading Co., Berkeley, Calif. (4b)
- Ventura Engr. Co., Phoenix, Ariz. (2a)
- Verhey Constr. Co., Chattanooga, Tenn. (41a)
- Vermilya-Brown Company, Inc., New York, N. Y. (N) (31c)
- Vernon Bros. Co., Boise, Idaho (11a)
- Vernon Bldrs. & Contr. Co., Leesville, La. (17f)
- Vernon Paving Co., Inc., Los Angeles, Calif. (4d)
- Versaggi Bros. Constr. Co., Wildwood, N. J. (29a)
- Vest & Bartell Constr. Co., Cincinnati, Ohio (34b)
- Vicini, Joe, Placerville, Calif. (4b)
- Viesko & Post, Salem, Oreg. (36b)
- Viette, Jas. J., Littleton, N. H. (28a)
- Vilbig Bros., Inc., Dallas, Texas (42a)
- Villa Contr. Co., Inc., Westfield, N. J. (29a)
- Villard Contr., Inc., Hastings-on-Hudson, N. Y. (29a)
- Vincent-Peterson Co., Salt Lake City, Utah (43a)
- Vinnell Co., Inc., Alhambra, Calif. (2a) (4d)
- Vinson Constr. Co., Phoenix, Ariz. & Los Alamos, N. Mex. (2a) (30b)
- Vinton Constr. Co., Coldwater, Mich. (21c)
- Vipperman Constr. Co., Beckley, W. Va. (47a)
- Virginia Engineering Co., Inc., Newport News, Va. (N)
- Visintine & Co., Columbus, Ohio (34d)
- Vivrett & Vivrett, Dallas, Texas (42a)
- Vizzini, Philip, Baltimore, Md. (19a)
- Vlaciich, Robt., Los Angeles, Calif. (4d)
- Vogel Bros. Bldg. Co., Madison, Wis. (48b)
- Vogt, Elmer, Inc., Massillon, Ohio (34d)
- Vokes, H. L., Co., Inc., The, Cleveland, Ohio (34c)
- Volden, Verdrie J., Inc., Farmington, Minn. (22a)
- Vollmar Bros. Constr. Co., St. Louis, Mo. (12d) (24c)
- Vollmer, C. W., & Co., Houston, Texas (23a)
- Vollmer, Clarence E., Constr. Co., Wichita, Kans. (15a)
- Volpa Bros., Fresno, Calif. (4b)
- Volpe Constr. Co., Malden, Mass. (20b)
- Volpe, S., & Co., Inc., Boston, Mass. (20b)
- von Rosenberg, H. J., San Antonio, Texas (42c)
- Vowell Constr. Co., El Paso, Texas (42f)
- W**
- W.M. Corp., Chicago, Ill. (12a)
- Waale-Camplan Co., Portland, Oreg. (36b)
- Waale, Camplan Co. of Los Angeles, Los Angeles, Calif. (4d)
- Wade, Henry F., Barnesville, N. C. (32a)
- Wadhams & May Co., The, Hartford, Conn. (6a)
- Wagner, C. A., Constr. Co., Sioux Falls, S. Dak. (40a)
- Wagner, Chas. E. W., Co., Inc., Richmond, Ind. (13b)
- Wagner Constr. Co., Austin, Minn. (22a)
- Wagner, Inc., Cincinnati, Ohio (34b)
- Wagner, Karl B., Austin, Texas (42j)
- Wagoner Constr. Co., Salisbury, N. C. (32a)
- Waitman, E. J., Harlingen, Texas (42o)

A.G.C. DIRECTORY

- Walbridge, Aldinger Company, Detroit, Mich. (N) (21a)
Walco Engr. & Constr. Co., Tulsa, Okla. (35a)
Waldron, Edward M., Incorporated, Newark, N. J. (L)
Walker, C. Glenn, Co., Ft. Dodge, Iowa (14b)
Walker, E. G., Tacoma, Wash. (46d)
Walker, Geo. W., & Sons, Inc., Buffalo, N. Y. (31a)
Walker, J. B. & R. E., Salt Lake City, Utah (43a)
Walker-Lewis Contr. Co., Mobile, Ala. (1a)
Walker, P. J., Co., Los Angeles, Calif. (4d)
Wallace & Bowden, Dallas, Texas (42f)
Wallace, W. H., Constr. Co., Dallas, Texas (42a)
Wallace & Wallace Contrs., Phoenix, Ariz. (2a)
Wallace, Wm., Philadelphia, Pa. (37d)
Waller-Wells Constr. Co., Tulsa, Okla. (35a)
Walling Constr. Co., Lewistown, Mont. (25a)
Walser, John F., Pontiac, Mich. (21c)
Walsh & Burney Co., San Antonio, Texas (42e)
Walsh Construction Company, New York, N. Y.; Davenport, Iowa & San Francisco, Calif. (N) (4b) (4d)
Walsh Constr. Co., Electra, Texas (42j)
Walsh & Ikeler, Gary, Ind. (13a)
Walsh, J. A., Corpus Christi, Texas (42i)
Walsh, T. H., & Argo Engr. Co., Los Angeles, Calif. (4d)
Walsh-Weaver Constr. Co., Inc., Jackson, Miss. (23a)
Walters & Prater, Morristown, Tenn. (41b)
Walters Sand Co., Manhattan, Kans. (15b)
Walton, J. S., & Co., Mobile, Ala. (1a)
Wambold, Edgar M., Philadelphia, Pa. (37d)
Wandel, Bruce B., Pittsburgh, Pa. (37c)
Wannamaker & Wells, Inc., Orangeburg, S. C. (32a)
Ward, C. P., Inc., Rochester, N. Y. (31d)
Ward, Ken, Constr. Co., Portland, Oreg. (36a)
Ward, O. J., Inc., Shreveport, La. (17e)
Wark & Co., Philadelphia, Pa. (37d)
Warlick, L. A., Contr. Co., Chattanooga, Tenn. (41a)
Warm, J. & E., Co., The, Cincinnati, Ohio (34b)
Warner, A. R. & Son, Waynesboro, Pa. (37a)
Warrack, J. B., Co., Seattle, Wash. & Anchorage, Alaska (46b) (50a)
Warranty Paving Co., Summit, N. J. (29a)
Warren Bros. Roads Co., Cambridge, Mass. & Birmingham, Ala. (1a) (31d)
Warren, F. V., Inc., Philadelphia, Pa. (37d)
Warren Northwest, Inc., Portland, Oreg. (36a)
Warren-Southwest, Inc., Torrance, Calif. (4d)
Warter Constr. Co., Tacoma, Wash. (46d)
Washburn Constr. Co., Centerville, Iowa (14b)
Washington Asphalt Co., Seattle, Wash. (46a)
Wasieleski, E. J., Phoenix, Ariz. (2a)
Waterfall Constr. Co., Ogden, Utah (43a)
Waters Constr. Co., Elizabethtown, Ky. (16a)
Waters, John N., Audubon, N. J. (29a)
Watkins, C. W., & Son, Boise, Idaho (11a)
Watkins, Ted, Linden, Calif. (4b)
Watson, Fred O., Co., Minneapolis, Minn. (22a)
Watson, Harold L., East St. Louis, Ill. (12d)
Watson, M. W., Topeka, Kans. & Corpus Christi, Texas (15a) (15b) (42i)
Wattlinger, R. H., Richmond, Va. (45a)
Watts, Cleal T., Rochdale, Miss. (23a)
Watts Constr. Co., The, Toledo, Ohio (34e)
Watts, J. G., Constr. Co., Portland, Oreg. & Seattle, Wash. (36a) (46b)
Wattson, R. A., Co., North Hollywood, Calif. (4d)
Waxberg, A. E., Constr. Co., Fairbanks, Alaska (50a)
Wayland, John F., Washington, Kans. (15a)
Wayman, W. M., Constr. Co., Cherokee, Iowa (14b)
Wayne, Engr. & Constr. Co., Inc., Mt. Olive, N. C. (32a)
Wayne Paving, Inc., Fort Wayne, Ind. (13a)
Weaver Bros. Constr. Co., Concord, N. H. (28a)
Weaver Constr. Co., Corpus Christi, Texas (42i)
Weaver Crane & Trucking Co., Inc., Charleston, W. Va. (47a)
Weaver, M. O., Inc., Des Moines, Iowa & Muskogee, Okla. (14a) (35b)
Weaver, W. H., Constr. Co., Inc., Greensboro, N. C. (32a)
Webb, Del E., Constr. Co., Phoenix, Ariz. & Los Angeles, Calif. (N) (2a) (4d)
Webb, T. A., Austin, Texas (42k)
Webb & White, Los Angeles, Calif. (4d)
Weber, Herman, Inc., Beaumont, Texas (42d) (42h)
Wedding & Cochran, Amarillo, Texas (42g)
Weeks Constr. Co., Inc., Kansas City, Mo. (24a)
Wegman & Co., Portland, Oreg. (36b)
Wehr, Edw. A., Pittsburgh, Pa. (37b)
Weidner & King, Fremont, Nebr. (26b)
Weikel Constr. Co., Inc., The, Fort Wayne, Ind. (13a)
Weill Lumber Co., Abbeville, La. (17f)
Weinstein Constr. Co., Akron, Ohio (34a)
Weir Contr. Co., Detroit, Mich. (21c)
Weise Bros., Austin, Texas (42k)
Weiss, R. L., & Son, Fountain City, Tenn. (41b)
Weist, Ray, Yakima, Wash. (46c)
Weitz Co., Inc., The, Des Moines, Iowa (14a) (14b)
Welch Constr. Co., Shreveport, La. (17b)
Welch, Mike, St. Paul, Minn. (22a)
Welcome, J. J., Constr. Co., Seattle, Wash. (46a)
Welden Bros., Iowa Falls, Iowa (14a)
Welden, O. E., Seattle, Wash. (46b)
Weldon Contr. Co., Westfield, N. J. (29a)
Weller & Boucher Constr. Co., Wichita, Kans. (15a)
Weller Bros., Spokane, Wash. (46c)
Wells Cargo, Inc., Reno, Nev. (27a)
Wells Contr. Co., Natchitoches, La. (17e)
Wells, W. L., Jackson, Miss. (23b)
Wells & Wells, Inc., St. Louis, Mo. (24c)
Welsh, J. H., Contr. Co., Phoenix, Ariz. (2a)
Wendel Constr. Co., El Campo, Texas (42f)
Wermuth, Inc., Fort Wayne, Ind. (13b) (21a)
Werner Co., The, Shreveport, La. (17b)
Werner, Geo. K., & Son, Clay Center, Nebr. (26b)
Werner, H. C., Inc., Eugene, Oreg. (36a)
Wescott, Louis S., Pittsburgh, Pa. (37c)
Wesley & Co., Inc., Atlanta, Ga. (10a)
Wessell Constr. Co., Memphis, Tenn. (41c)
West Bldg. Co., Inc., Winston-Salem, N. C. (32a)
West, J. H., Birmingham, Ala. (1a)
West, P. S., Constr. Co., Inc., Statesville, N. C. (32a)
West Shore Constr. Co., Zeeland, Mich. (21c)
Westbrook & Pope, Sacramento, Calif. (4b)
Weston Corp., Los Angeles, Calif. (4d)
Westcott-Bowen Constr. Co., Lincoln, Nebr. (26a)
Western Asphalt Co., Seattle, Wash. (46a)
Western Constr. Co., Greeley, Colo. (5b)
Western Constr. Co., Pocatello, Idaho (11a)
Western Constr. Co., Inc., Lake Charles, La. (17c)
Western Constrs., Inc., Phoenix, Ariz. (2a)
Western Contracting Corporation, Sioux City, Iowa; Los Angeles & Los Banos, Calif. (N) (2a) (4b) (14a) (15b) (26b) (40a) (42f)
Western Crane Service, Berkeley, Calif. (4b)
Western Engr. Co., Harlan, Iowa (14a) (40a)
Western Motor Transfer, Inc., Santa Barbara, Calif. (4d)
Western Pipe Line Constrs., Austin, Texas (42m)
Western U. S. Constr. Co., San Fernando, Calif. (4d)
Westlake Constr. Co., St. Louis, Mo. (24c)
Westland Constr. Co., Inc., The, Seattle, Wash. (46b)
Westphal, John C., Co., Detroit, Mich. (21a)
Wetherby, J. P., Constr. Co., Ottawa, Ill. (12c)
Wetmore, W. G., Jackson, Miss. (23b)
Wexler Constr. Co., Inc., Brookline, Mass. (20b)
Wey-Leonard Constr. Co., Atlanta, Ga. (10a)
Weymouth Constr. Co., Memphis, Tenn. (23a)
Whalley-Strong Co., Savannah, Ga. (10a)
Wheatley, Geo. W., & Son, Duplo, Ill. (12d)
Wheeler, C. F., Miami, Fla. (9b)
Wheeler, Earl C., Hartford, Conn. (6a)
Wheeler & Tempest, Salt Lake City, Utah (43a)
Wheeler & Trotz, Albuquerque, N. Mex. (30a)
Wheelwright Constr. Co., Ogden, Utah (43a)
Whetzel Bros., Champaign, Ill. (12c)
Whitaker, Guy C., Shreveport, La. (17b)
Whitcomb, Arthur, Constr. Co., Inc., Keene, N. H. (28a)
Whitcomb, Frank W., Constr. Corp., North Walpole, N. H. (28a)
White, A. P., & Assos., Charlotte, N. C. (32a)
White, Barclay, & Co., Inc., Philadelphia, Pa. (37d)
White Bros. Constr. Co., Inc., Walla Walla, Wash. (25a) (36a)
White Constr. Co., Pensacola, Fla. (9d)

(Numerals after names indicate the Chapter in which member belongs—See Key to Listing of A. G. C. Units—page 217). N—National Member (page 315). L—Local Member.

- White Constr. Co., Boston, Mass. (20b)
 White Constr. Co., Inc., New York City (31c)
 White Constr. & Engr. Co., St. Petersburg, Fla. (9c)
 White, Howard J., Inc., Palo Alto, Calif. (4a)
 White, L. M., Constr. Co., Tucson, Ariz. (2a)
 White, Noble W., Seattle, Wash. (46b)
 White, Richard, Sons, Inc., West Newton, Mass. (20b)
 White, Wm. L., & Son, Terre Haute, Ind. (13a)
 Whitehead, I. L., Co., Sault Ste. Marie, Mich. (21c)
 Whitehurst Constr. Co., Ponca City, Okla. (35a)
 Whiting, Floyd S., Murray, Utah (43a)
 Whiting & Haymond, Springville, Utah (43a)
 Whitley, D. A., Co., Spokane, Wash. (46c)
 Whitmeyer, Geo. A., & Sons Co., Ogden, Utah (43a)
 Whitmore, C. B., Co., Lockport, N. Y. (31d)
 Whitmyer Bros., Hammonton, N. J. (29a)
 Whittenberg Constr. Co., Louisville, Ky. (16b)
 Whittle, R. D., Constr. Co., Dallas, Texas (42j)
 Whitmore, S. E., Albuquerque, N. Mex. (30b)
 Whitton Bros., Charlotte, N. C. (32a)
 Whitty Constr. Co., Washington, D. C. (8a)
 Wick & Dahlgren, Seattle, Wash. (46b)
 Wickes Engr. & Constr. Co., Des Moines, Iowa (14a) (14b)
 Wiechmann & Probasco, Inc., Reno, Nev. (27a)
 Wigton-Abbott Corporation, Plainfield, N. J. (N) (37d)
 Wikstrom, A. S., Skaneateles, N. Y. (29a) (31d)
 Wilborn Constr. Co., Birmingham, Ala. (1a)
 Wilburn & Son, Asheville, N. C. (32a)
 Wilcox, Ira C., Co., Pittsburgh, Pa. (37b)
 Wilcox, Jack, Huntington Park, Calif. (4d)
 Wilder, C. V., Co., Bellingham, Wash. (46a)
 Wilder, F. E., Olympia, Wash. (46a)
 Wildes Constr. Co., Waterloo, Iowa (14b)
 Wildman, R. H., Constr. Co., Iowa City, Iowa (14b)
 Wile, Henry E., Co., Newton Centre, Mass. (20b)
 Wilhelm, C. H., Faulkton, S. Dak. (40a)
 Wilhelm, F. A., Indianapolis, Ind. (13b)
 Wilkes Constr. Corp., Buffalo, N. Y. (31d)
 Wilkins Constr. Co., Pittsburgh, Pa. (37c)
 Willamette Tug & Barge Co., Portland, Oreg. (36a)
 Willard, A. Y., Charleston, S. C. (32a)
 Willard-Brent Co., Los Angeles, Calif. (4d)
 Williams-Austin Co., Pittsburgh, Pa. (42m)
 Williams Bros. Co., Tulsa, Okla. (42m)
 Williams Bros.-Davis Co., Houston, Texas (42m)
 Williams & Burrows, Inc., Burlingame, Calif. (4a)
 Williams, Claude K., & Co., Inc., Houston, Texas (42d)
 Williams, Cole, Inc., Dallas, Texas (42j)
 Williams Constr. Co., Baltimore, Md. (19b)
 Williams Constr. Co., Tigard, Oreg. (36a)
 Williams Constr. Co., Houston, Texas (42d)
 Williams Constr. & Drilling Co., Grand Junction, Colo. (5b)
 Williams, Edw., Houston, Texas (42d)
 Williams Equip. Co., Fairbanks, Alaska (50a)
 Williams, H. A., Allentown, Pa. (37a)
 Williams, J. E., Constr. Co., St. Louis, Mo. (24c)
 Williams, J. L., Constr. Co., Inc., Bellaire, Texas (42j)
 Willingham Constr. Co., Inc., St. Louis, Mo. (24c)
 Willis, C. G., & Sons, Inc., Los Angeles, Calif. (4d)
 Willis Constr., Branchville, Sussex Co., N. J. (29a)
 Willis, T. S., Janesville, Wis. (48b)
 Willits, Perry E., Inc., Miami, Fla. (9b)
 Willoughby, A. B., Salinas, Calif. (4a)
 Wilson, Jack, Downey, Calif. (4d)
 Willy Constr. Co., Dubuque, Iowa (14b)
 Wilmoth, Tom, Longview, Texas (42n)
 Wilscam, Geo., Wichita, Kans. (15a)
 Wilson Bros., Inc., Parkersburg, W. Va. (47a)
 Wilson, C. T., Constr. Co., St. Louis, Mo. (12d) (24b) (24c)
 Wilson Constr. Co., Lincoln, Nebr. (26a)
 Wilson Constr. Co., Marion, S. C. (32a)
 Wilson Constr. Co., Inc., Salisbury, N. C. (32a)
 Wilson Constr. Co., Inc., Johnstown, Pa. (37a)
 Wilson-Covington Constr. Co., Winston-Salem, N. C. (32a)
 Wilson, Frank H., Ardmore, Pa. (37d)
 Wilson, G. L., Bldg. Co., Statesville, N. C. (32a)
 Wilson, H. P., New Castle, Del. (7a)
 Wilson, J. H., Co., Seattle, Wash. (46b)
 Wilson-Ledford Constr. Co., Inc., Gastonia, N. C. (32a)
 Wilson, Mark K., Co., Chattanooga, Tenn. (41a)
 Wilson, Robt. M., Guttenberg, Iowa (14a)
 Wilson, S. M., & Co., Granite City, Ill. (12d)
 Wiltsccheck & Nelson, Inc., Racine, Wis. (48b)
 Winans Constr. Co., Inc., The, Linden, N. J. (29a)
 Windham & Sons, Inc., Livingston, Texas (42d)
 Wining & Selby, Inc., New York, N. Y. (37d)
 Winkelman, D. W., Carolina Co., Greensboro, N. C. (32a)
 Winkelman, D. W., Co. Inc., Syracuse, N. Y. (N) (31d) (37c)
 Winn-Senter Constr. Co., Kansas City, Mo. (24a)
 Winner, B. L., Co., Inc., Pittsburgh, Pa. (37b)
 Winslow Constr. Co., Salem, Ind. (13a)
 Winston Bros. Company, Minneapolis, Minn. & Monrovia, Cal. (N) (4d) (22a) (24b)
 Wintz, Frank I., & Son, Philadelphia, Pa. (37d)
 Wirtz, Walter E., Amarillo, Texas (42g)
 Wise Constr. Co., Richmond, Va. (45a)
 Wise, E. D., Chattanooga, Tenn. (41a)
 Wise, J. H., & Son, Boise, Idaho (11a)
 Wisner & Miller, Lodi, Calif. (4a)
 Witcher, Dean L., Inc., Minneapolis, Minn. (22a)
 Withers, P. T., Constr. Co., Gastonia, N. C. (32a)
 Witt Constr. Co., Payson, Utah (43a)
 Witters Constr. Co., Inc., Miami, Fla. (9b)
 Woehl, A. J., Bastrop, Texas (42k)
 Woermann Constr. Co., St. Louis, Mo. (24c)
 Wohl-Calhoun Co., Los Angeles, Calif. (4d)
 Wohlfeld, Nathan, Dallas, Texas (42d)
 Wohlgemuth, C., Jr., Washington, D. C. (8a)
 Wolf Constr. Co., Logansport, Ind. (13b)
 Wolfe Constr. Co., Philadelphia, Pa. (37d)
 Wolfe, M. H., & Co., Inc., Nameeki, Ill. (12d)
 Wolfe, Monroe J., New Orleans, La. (23a)
 Wolff, Arthur C., Inc., Milwaukee, Wis. (48a)
 Wolff, DeGraff, St. Paul, Minn. (22a)
 Wolter, W. H., Corpus Christi, Texas (42i)
 Womack Constr. Co., Phoenix, Ariz. (2a)
 Wonderly Constr. Co., Long Beach, Calif. (4d)
 Wood & Barton Co., Frankfort, Ky. (16a)
 Wood, Claude C., Co., Lodi, Calif. (4b)
 Wood, Clyde W., & Sons, Inc., North Hollywood, Calif. (2a) (4b) (4d)
 Wood, Earl R., Ainsworth, Iowa (14b)
 Wood, Louis A., Houston, Texas (42d)
 Wood, Milo, & Son, Newton, Iowa (14b)
 Wood, W. E., Co., Detroit, Mich. (21a)
 Woodcock, O. P., Co., Jacksonville, Fla. (9a)
 Wooding, C. F., Co., The, Wallingford, Conn. (6a)
 Woodrich Constr., Inc., Hopkins, Minn. (22a)
 Woodruff, H. E., Corpus Christi, Texas (42i)
 Woodruff, W. E., Co., Houston, Texas (42d)
 Woodward Constr. Co., Rock Springs, Wyo. (49a)
 Woodward, L. A., Constr. Co., Missoula, Mont. (25a)
 Woodworth & Co., Inc., Tacoma, Wash. (46d)
 Woolley, J. E., Birmingham, Ala. (1a)
 Wooten Constr. Co., Little Rock, Ark. (3a)
 Worcester, John C., San Antonio, Texas (42c)
 Word, Dean, & Co., New Braunfels, Texas (42f)
 Worrell, M. E., Junction, Texas (42f)
 Worrell & Watkins, Longview, Texas (42f)
 Worth Constr. Co., Fort Worth, Texas (42f)
 Wrenn-Wilson Constr. Co., Durham, N. C. (32a)
 Wright Constr. Co., Williamston, Mich. (21c)
 Wright Constr. Co., Raleigh, N. C. (32a)
 Wright, Fred., Constr. Co., Nashville, Tenn. (41d)
 Wright, Howard S., & Co., Inc., Seattle, Wash. (46b)
 Wright & Kremers, Inc., Niagara Falls, N. Y. (31a)
 Wright, Robt. R., Clayton, Mo. (24c)
 Wright, W. V., Constr. Co., Dallas, Texas (13a)
 Wunderlich Contracting Company, Omaha, Nebr. (N) (5b)
 Wylie Bros., Albuquerque, N. Mex. (30a)
 Wyoming Constr. Co., Laramie, Wyo. (49a)
 Wyoming Improvement Co., Denver, Colo. (49a)
 Wyse, Harry O., Lexington, Ky. (16a)

A.G.C. DIRECTORY

Y

Yant Constr. Co., Omaha, Nebr. (26b)
 Yellin, S., & Son, Inc., Philadelphia, Pa. (37d)
 Yenter, J. C., Tyrone, Pa. (37a)
 Yerington, John G., Benton Harbor, Mich. (21c)
 Yett, Porter W., Portland, Oreg. (36a)
 Yocom, O. C., McMinnville, Oreg. (36a)
 York Bldg. Co., Raleigh, N. C. (32a)
 Young & Adams, Inc., Baltimore, Md. (19a)
 Young, B. G., & Sons, Johnson City, Tenn. (41c)
 Young Constr. Co., St. Joseph, Mo. (15b)
 Young Constr. Co., Rock Hill, S. C. & Charlotte, N. C. (32a)
 Young, Emmett, Inc., Lake Charles, La. (17c)
 Young, F. E., Berkeley, Calif. (4b)
 Young, F. E., Constr. Co., San Diego, Calif. (4c)

Young Foundation Corp., Teaneck, N. J. (29a)
 Young, Fred, Memphis, Tenn. (41c)
 Young, J. E., Pipeline Contr., Inc., Los Angeles, Calif. (4d)
 Young, J. R., Constr. Co., Inc., Fayetteville, N. C. (32a)
 Young, L. A., Constr. Co., Richfield, Utah (43a)
 Young, L. R., Constr. Co., Olney, Ill. (42m)
 Young, Perce, Bldg. Constr., Salt Lake City, Utah (43a)
 Young & Smith Constr. Co., Salt Lake City, Utah (43a)
 Young & Sons Constr. Co., Inc., Chicago, Ill. (12a)
 Young, W. M., Tracy, Calif. (4b)
 Youngman, H. D., Baxter Springs, Kans. (15b) (35b)
 Youngs, Claude L., Sacramento, Calif. (4b)
 Yount, R. F., Co., Kittanning, Pa. (37c)
 Younts, E. E., Inc., High Point, N. C. (32a)

Z

Zachry, H. B., Co., San Antonio & Laredo, Texas (N) (42d) (42f) (42i)
 Zara Contr. Co., Inc., Hewlett, L. I., N. Y. (31d)
 Zeigler-Cline Constr. Co., Fayetteville, N. C. (32a)
 Zeller, Max J., Inc., Columbus, Ohio (34d)
 Zempter, J. W., Contr. Co., Inc., Galveston, Texas (42d)
 Zerkel Constr. Co., Arlington, Va. (8a)
 Zimmerly Constr. Co., Paris, Ill. (12c)
 Zimmerman, Louis, Jr., Hillside, N. J. (29a)
 Zinzow Constr. Co., Inc., Elkhorn, Wis. (48b)
 Zitterell-Mills Co., Webster City, Iowa (14b)
 Zull, C. Louis, Cincinnati, Ohio (34b)
 Zwack, Anton, Inc., Dubuque, Iowa (14b)

(Numerals after names indicate the Chapter in which member belongs—See Key to Listing of A. G. C. Units—page 217). N—National Member (page 315). L—Local Member.

Roster by States

T. ALABAMA

(a) ALABAMA BRANCH

President—Houston Brice, Jr., Brice Bldg. Co., Inc., 1021 2d Ave., No., Box 1028, Birmingham 1, Ala.
Executive Secretary—J. B. Rawls, 1028 7th Ave., So., Birmingham 5, Ala.
Telephone: 4-5547-8

Allen, R. J., Contr. Co., P. O. Box 3881, Fairview, Birmingham 8, Ala. (B)
 Brasfield, Thos. C., 3025 6th Ave., Birmingham, Ala. (B)
 Brice Bldg. Co., Inc., 1021 2d Ave., No., Box 1028, Birmingham 1, Ala. (B)
 Buchanan, P. A., Contr. Co., 610 3d Ave., W., P. O. Box 1903, Birmingham, Ala. (B-Hvy)
 Burgess, A. E., Contr. Co., 5529 1st Ave., So., Birmingham, Ala. (H)
 Burke, J. P., 269 N. 4th St., Box 123, Gadsden, Ala. (B)
 Chapman Constr. Co., 709 S. Oates St., Dothan, Ala. (B)
 Coston, W. L., & Sons, 1st Natl. Bk. Bldg., Birmingham, Ala. (B)
 Couch Constr. Co., Dothan, Ala. (H-Hvy-RR)
 Daniel Constr. Co., P. O. Box 1511, Birmingham, Ala. (B)
 Daugette, F. R., P. O. Box 1730, Birmingham, Ala. (B)
 Dethlefs & Hannon, Anniston, Ala. (B)
 Dillard, J. E., & Sons, 2901 N. 19th St., Bessemer, Ala. (B)
 Donahoo, A. G., Contr. Co., 2810 3d Ave., So., Birmingham, Ala. (B)
 Donahoo, H. N., 520 1st Ave., No., Birmingham, Ala. (B)
 Dunn Constr. Co., Inc., 2508 3d Ave., No., Birmingham 3, Ala. (B-H-Hvy-RR)
 Ellard Contr. Co., Inc., P. O. Box 35, Irondale Sta., Birmingham 10, Ala. (H-Hvy-RR)
 Foster & Creighton Co., P. O. Box 2469, Birmingham 1, Ala. (B-H)
 Hoar, F. R., & Son, Inc., 2808 19th Pl., So., Birmingham, Ala. (B)
 Hodges & Co., Inc., P. O. Box 998, Anniston, Ala. (H)
 Holley, J. F., 905 6th Ave., No., Birmingham, Ala. (B)
 Hooks, C. F., Rt. 13, Box 145-A, Birmingham, Ala. (B)
 Howton, W. C., Contr. Co., 3904 10th Ave., No., Birmingham, Ala. (H)
 Kershaw, C. G., Contr. Co., 2212 S. 20th Ave., Birmingham, Ala. (H)
 Morgan-Holloman Constr. Co., P. O. Box 434, Tuscaloosa, Ala. (B)
 Morris, W. E., 800 4th Ave., No., Birmingham, Ala. (B)
 Moss-Thornton Co., Inc., P. O. Box 82, Leeds, Ala. (H)
 Paul, Ed., 1145 15th Way, S. W., Birmingham, Ala. (B)
 Paul, G. A., 14 Bonita Dr., Birmingham, Ala. (B)

Perusini Constr. Co., 720 S. 28th Ave., Homewood, Ala. (B)
 Richardson Constr. Co., 429 S. 24th St., Birmingham 5, Ala. (B)
 Rives Constr. Co., 1015 7th Ave., So., Birmingham, Ala. (B)
 Roberts, Jack A., 1318 N. 23d St., P. O. Box 1890, Birmingham, Ala. (B)
 Smallman, Ralph A., & Co., Inc., 1109 5th Ave., So., Birmingham, Ala. (B)
 Southern Amiesite Asphalt Co., Inc., 3401 5th Ave., No., P. O. Box 1390, Birmingham 1, Ala. (B-H-Hvy-RR)
 Steel City Constr. Co., Inc., 217 Clark Bldg., Birmingham, Ala. (B)
 Sullivan, A. L., 3711 3d Ave., So., P. O. Box 3098, Avondale Sta., Birmingham, Ala. (B)
 Sullivan, Long & Hagerty, Inc., 800 4th Ave., No., Birmingham, Ala. (B-H-Hvy)
 Thompson & Street Co., 1831 7th Ave., So., Birmingham, Ala. (B)
 Warren Bros. Roads Co., 1419 1st Natl. Bldg., P. O. Box 549, Birmingham, Ala. (H)
 West, J. H., 4210 1st Ave., No., Birmingham 6, Ala. (B)
 Wilborn Constr. Co., 830 2d Ave., No., Birmingham, Ala. (B)
 Woolley, J. E., 304 Ridge Rd., Homewood, Birmingham, Ala. (B)

Mobile Section

President—Walter C. Ernest, Ernest Constr. Co., Inc., 1810 Old Shell Rd., Mobile 17, Ala.
Executive Secretary—J. R. Klumpp, 57½ St. Francis St., Mobile, Ala.
Telephone: 3-9642

Bay City Constr. Co., P. O. Box 1286, Mobile 7, Ala. (B)
 Bernard & Byrd, P. O. Box 1688, Mobile, Ala. (B-Hvy)
 Bost, P. M., 52 DeMouy Ave., Mobile, Ala. (B)
 Bray Constr. Co., Inc., P. O. Box 294, Mobile 2, Ala. (B)
 Cohron, H. V., 352 Cohron St., Crichton Sta., Mobile, Ala. (B)
 Conley Constr. Co., 1100 S. Conception St., Mobile, Ala. (B)
 Cropp, E. H., Constr. Co., 1508 Eslava St., Mobile 19, Ala. (B)
 Davis, T. H., 2508 O'sage St., Mobile 17, Ala. (B)
 Ernest Constr. Co., 1810 Old Shell Rd., Mobile 17, Ala. (Hvy)
 Ewin Engr. Corp., P. O. Box 361, Mobile 3, Ala. (B-H-Hvy)
 Gulf Constr. Co., 106 St. Anthony St., P. O. Box 358, Mobile 3, Ala. (B-Hvy)
 Hancock Co., 310 St. Michael St., P. O. Box 1515, Mobile, Ala. (H-Hvy)
 Higginson, Peyton, 59½ St. Francis St., P. O. Box 402, Mobile, Ala. (B)
 Jarrell, L. L., P. O. Box 36, Whistler, Ala. (H-Hvy-RR)
 Massengale Cement Co., 187 Lyons Park Ave., Mobile 17, Ala. (B)

Morrow, E. L., Constr. Co., 269½ N. Royal St., Mobile, Ala. (B)
 Newman, Stanley W., Co., Inc., Merchants Natl. Bk. Bldg., P. O. Box 1565, Mobile, Ala. (B)
 Pate, J. F., Constr. Co., Annex 1st Natl. Bk. Bldg., P. O. Box 375, Mobile 3, Ala. (B)
 Roberts & Long Constr. Co., Merchants Bk. Bldg., Mobile, Ala. (B)
 Walker-Lewis Constr. Co., 58 St. Francis St., P. O. Box 703, Mobile, Ala. (B)
 Walton, J. S., & Co., P. O. Box 863, Mobile, Ala. (H-Hvy)

Montgomery Section

President—W. K. Upchurch, W. K. Upchurch Constr. Co., Box 1189, Montgomery, Ala.
Secretary-Treasurer—Neil G. Andrew, Andrew & Dawson, 32 Clayton, P. O. Box 1301, Montgomery, Ala.
 Andrew & Dawson, 32 Clayton, P. O. Box 1301, Montgomery, Ala. (B)
 Bear Bros., Inc., P. O. Box 1149, Montgomery, Ala. (B)
 Butler & Cobbs, 723 Bell Bldg., P. O. Box 1608, Montgomery, Ala. (B)
 Jones, A. Berney, 409 Monroe St., P. O. Box 1528, Montgomery, Ala. (B)
 Upchurch, W. K., Constr. Co., Box 1189, Montgomery, Ala. (B)

2. ARIZONA

(a) ARIZONA CHAPTER

President—L. G. Vinson, Vinson Constr. Co., P. O. Box 930, 2020 W. Grant Ave., Phoenix, Ariz.
Secretary—Joseph P. Condrey, 324 Luhrs Bldg., Phoenix, Ariz.
Telephone: 4-1818

Allied Constr. Co., 1502 W. Thomas, Phoenix, Ariz. (B)
 Arizona Concrete Pipe Co., 1746 W. Fillmore, Phoenix, Ariz. (Hvy)
 Arizona Sand & Rock Co., P. O. Box 596, Phoenix, Ariz. (H-Hvy)
 Ashton Bldg. Co., 2025 E. 22d, Tucson, Ariz. (B)
 Beall, I. G., P. O. Box 1453, Phoenix, Ariz. (H)
 Bechtel Corp., 220 Bush St., San Francisco 4, Calif. (B-H-Hvy)
 Benton Constr. Co., 2800 S. Central, Phoenix, Ariz. (H)
 Benz, Dale, Inc., P. O. Box 6007, Phoenix, Ariz. (B)
 Bong, Clifford C., & Co., 123 N. 3d Ave., Arcadia, Calif. (H-Hvy-RR)
 Bowers & Darrow, 1001 E. Missouri, Phoenix, Ariz. (B)
 Bradley & Dysart, 2726 E. Picadilly, Phoenix, Ariz. (H)
 Campbell, Clinton, Contrs., Inc., 1814 S. 7th Ave., Phoenix, Ariz. (B)

(Symbols following names indicate type of construction performed by company; B—Building; H—Highway; Hvy—Heavy; RR—Railroad.)

A.G.C. DIRECTORY

ARIZONA—Continued

Carney Constr. Co., Rt. 2, Box 408, Phoenix, Ariz. (H)
 Cockrill, Mark, Contr. Co., 1917 W. Grant St., Phoenix, Ariz. (Hvy)
 Construction Materials Co., P. O. Box 2768, Tucson, Ariz. (H)
 Cook, Geo. F., Constr. Co., 2833 Lyndale Ave., So., Minneapolis, 8, Minn. (B)
 Daley Constr.-Acme Materials Co., Box 1590, Phoenix, Ariz. (H-Hvy)
 Daum-Donaldson Constr. Co., 321 S. 24th St., Phoenix, Ariz. (B-Hvy)
 Dennison, Karl W., 705 E. Roma, Phoenix, Ariz. (B)
 Duhamel, Elmer W., Constr. Co., 2250 E. Washington, Phoenix, Ariz. (B)
 Farmer & Godfrey, 4202 E. Osborn Rd., Phoenix, Ariz. (B)
 Fisher Contr. Co., P. O. Box 4035, Phoenix, Ariz. (H-Hvy)
 Flickinger, D. A., 1261 E. Cambridge, Phoenix, Ariz. (H)
 Gustafson, B. L., 1700 E. Campbell Ave., Phoenix, Ariz. (H)
 Hagen, Harry J., Globe, Ariz. (H)
 Hallmark Constr. Co., 2547 W. Jackson, Phoenix, Ariz. (Hvy)
 Henson, W. J., Box 471, 817 Crest Ave., Prescott, Ariz. (H)
 Heuser & Garnett, 731 N. 19th Ave., Phoenix, Ariz. (H)
 Johnson Constr. Co., Box 4036, Tucson, Ariz. (H)
 Kelton, John C., & Son, 4525 N. 7th St., Phoenix, Ariz. (H)
 Kerns, G. E., Constr. Co., P. O. Box 4144, Phoenix, Ariz. (H-Hvy)
 King-Hoover Constr. Co., 115 S. 30th St., Phoenix, Ariz. (Hvy)
 Kitchell-Phillips Contrs., Inc., 405 S. 7th St., Phoenix, Ariz. (B)
 Kolob Constr. Co., P. O. Box 1832, Phoenix, Ariz. (H)
 Larsen, A. A., P. O. Box 1572, Phoenix, Ariz. (H)
 Macco Corp., 14409 Paramount Blvd., Paramount, Calif. (H-Hvy)
 Maddox, C. L., Box 1011, Phoenix, Ariz. (B)
 Mardian Constr. Co., 1314 N. 21st Ave., Phoenix, Ariz. (B)
 Martin Constr. Co., P. O. Box 934, Tucson, Ariz. (H)
 McKee, Robt. E., P. O. Box 217, El Paso, Texas (B-Hvy)
 Mohamed Earthmoving Contr., 1700 S. 1st St., Phoenix, Ariz. (H)
 New State Elec. Co., 214 W. Washington, Phoenix, Ariz. (Hvy)
 Newbery Elec. Corp. of Arizona, 2146 E. Washington, Phoenix, Ariz. (Hvy)
 Orr & Orr Constr. Co., 302 W. Monte Vista Rd., Phoenix, Ariz. (H)
 Packard Contr. Co., P. O. Box 3825, Phoenix, Ariz. (H)
 Panelcrete Engr. Co., 1900 Beverly Blvd., Los Angeles 4, Calif. (B-H-Hvy)
 Payne, Dale, 2345 W. Thomas Rd., Phoenix, Ariz. (H)
 Phoenix-Tempe Stone Co., P. O. Box 1670, Phoenix, Ariz. (H-Hvy)
 Pinner, Arthur, Jr., 116 W. 94th St., Los Angeles, Calif. (H-Hvy)

Pioneer Constr., Inc., Box 2768, Tucson, Ariz. (H)
 Porter, J. R., Constr. Co., 3407 N. 7th St., Phoenix, Ariz. (B)
 Price, Lyle, P. O. Box 548, Flagstaff, Ariz. (H)
 Putter, Frank A., 722 N. Main, Tucson, Ariz. (B)
 Reliance Truck Co., P. O. Box 2293, Phoenix, Ariz. (H)
 Royden, H. L., P. O. Box 3707, Phoenix, Ariz. (H-Hvy)
 San Xavier Rock & Sand Co., P. O. Box 1031, Tucson, Ariz. (H)
 Skousen, W. R., P. O. Box 71, Mesa, Ariz. (H)
 Sundt, M. M., Constr. Co., P. O. Box 2592, Tucson, Ariz. (B-Hvy)
 T. G. K. Constr. Co., Inc., 802 Security Bldg., Phoenix, Ariz. (B)
 Tanner Bros. Constr. Co., 731 N. 19th Ave., Phoenix, Ariz. (H-Hvy)
 Tidmarsh Engr. Co., P. O. Box 2425, Tucson, Ariz. (B-Hvy)
 Tiffany Constr. Co., P. O. Box 846, Phoenix, Ariz. (H-Hvy)
 Ventura Engr. Co., 1502 W. Thomas Rd., Phoenix, Ariz. (B)
 Vinnell Co., Inc., 1145 Westminster Ave., Alhambra, Calif. (H-Hvy)
 Vinson Constr. Co., 2020 W. Grant Ave., P. O. Box 930, Phoenix, Ariz. (H-Hvy)
 Wallace & Wallace Contrs., P. O. Box 470, Phoenix, Ariz. (H)
 Wasielewski, E. J., 24 E. Glendale Ave., Phoenix, Ariz. (B)
 Webb, Del E., Constr. Co., P. O. Box 4066, Phoenix, Ariz. (B-Hvy)
 Welsh, J. H., & Son Contr. Co., 805 S. Central Ave., Phoenix, Ariz. (Hvy)
 Western Constr., Inc., P. O. Box 1605, Phoenix, Ariz. (H-Hvy)
 Western Contracting Corporation, 400 Benson Bldg., Sioux City 15, Iowa (H-Hvy)
 White, L. M., Contr. Co., P. O. Box 6008, Tucson, Ariz. (H)
 Womack Constr. Co., Box 2414, Phoenix, Ariz. (B-Hvy)
 Wood, Clyde W., & Sons, Inc., 6900 Tujunga Ave., P. O. Box 620, North Hollywood, Calif. (B-H-Hvy)

Branton, M. O., Constr. Co., P. O. Box 2260, Little Rock, Ark. (B)
 Burden, Geo. H., Co., Inc., E. 5th & McLean Sts., Little Rock, Ark. (B)
 Carty, Herman, 213 Riegler Bldg., Little Rock, Ark. (B)
 Coogan, Thos. P., Co., 435 Hialeah Dr., Hialeah, Fla. (B)
 Davis, R. H., Box 36, Stamps, Ark. (H)
 Ditmars-Dickmann-Pickens Constr. Co., Gazette Bldg., Little Rock, Ark. (B)
 Dixon, S. M., Warren, Ark. (H)
 Evans, S. E., Constr. Co., Box 903, Fort Smith, Ark. (H-Hvy-RR)
 Forsgren Bros., P. O. Box 368, Fort Smith, Ark. (H)
 Fraser Constr. Co., Inc., P. O. Box 717, Fort Smith, Ark. (B)
 Garms, Grady, 29th & Elm Sts., P. O. Box 823, Little Rock, Ark. (H)
 Gregory, Artie, Box 1108, Little Rock, Ark. (H)
 Hammock, R. W., Rt. 1, Van Buren, Ark. (B-H-Hvy-RR)
 Higgins, R. T., P. O. Box 813, Hot Springs, Ark. (B)
 Hill, D. B., 619 Parker St., P. O. Box 2437, Little Rock, Ark. (H-RR)
 Hogan, Ben M., & Co., Box 2860, Little Rock, Ark. (H-Hvy)
 Jones, D. F., Constr. Co., Box 2660, Little Rock, Ark. (H-Hvy)
 Keaton Constr. Co., P. O. Box 1876, Little Rock, Ark. (H-Hvy)
 Kelley-Nelson Constr. Co., 115 N. Spring St., P. O. Box 1678, Little Rock, Ark. (B)
 Knight, L. H., Co., 112½ E. 7th St., P. O. Box 1378, Little Rock, Ark. (B)
 Linebarger Constr. Co., 222 Scott St., Little Rock, Ark. (B)
 Little Rock Bldrs., Inc., 212 Spring St., Little Rock, Ark. (B)
 M & L Constr. Co., 207 Riegler Bldg., Little Rock, Ark. (H-Hvy)
 May, G. W., Box 306, Little Rock, Ark. (B)
 McClinton Bros. Constr. Co., 310 Ozark Theatre Bldg., Box 749, Fayetteville, Ark. (Hvy)
 McGeorge Contr. Co., Inc., Box 995, Pine Bluff, Ark. (H-Hvy)
 Mississippi Valley Contr. Co., Inc., P. O. Box 97, Paragould, Ark. (H-Hvy)
 Mode & McCracken, Conway, Ark. (H-Hvy)
 Peterson, Garbi & Joseph, Inc., 123 E. 9th St., North Little Rock, Ark. (B)
 Pyle, J. E., P. O. Box 1679, Little Rock, Ark. (B)
 Reynolds & Williams, 115 N. Spring St., P. O. Box 1207, Little Rock, Ark. (H)
 Shaw Constr. Co., 227 State Natl. Bk. Bldg., Texarkana, Ark. (B)
 Smith, Linwood, Box 369, Lake Village, Ark. (H-Hvy-RR)
 Southeast Constr. Co., Inc., P. O. Box 16, 127½ Main St., Pine Bluff, Ark. (H-Hvy)
 Tri-States Constr. Co., 316 Hall Bldg., Little Rock, Ark. (B)
 Vaughan, Fell, 1100 W. 2d St., P. O. Box 430, North Little Rock, Ark. (H-Hvy)
 Wooten Constr. Co., 609 Wallace Bldg., Little Rock, Ark. (B)

3. ARKANSAS

(a) ARKANSAS CHAPTER

President—M. O. Branton, M. O. Branton Constr. Co., P. O. Box 2260, Little Rock, Ark.

Secretary-Treasurer—Ray Metzger, Urquhart Bldg., Box 2421, Little Rock, Ark.

Telephones: 9621 & 5-8643

Armbrust, E. E., 107 Atkins St., North Little Rock, Ark. (B)
 Arney, Arthur J., 1503 Ohio St., P. O. Box 841, Pine Bluff, Ark. (B)
 Baldwin Co., The, 213 Wallace Bldg., Little Rock, Ark. (B)
 Bralei Homes, Inc., Box 232, North Little Rock, Ark. (B)

4. CALIFORNIA

(a) CENTRAL CALIFORNIA
CHAPTER

President—Bert O. Summers, Erben-
traut & Summers, 696 Pennsylvania
Ave., San Francisco 7, Calif.

Secretary-Manager—Frank G. Corker,
Chancery Bldg., 564 Market St.,
San Francisco 4, Calif.

Telephone: Exbrook 2-6032

Acme Constr. Co., 827 13th St., Modesto,
Calif. (B)
Akard, W. C., 225 Cervantes Blvd., San Fran-
cisco 23, Calif. (B)
American Pipe & Constr. Co., P. O. Box 3428,
Terminal Annex, Los Angeles 54, Calif.
(Hvy)
Amoroso, S. J., Constr. Co., 2100 Oakdale
Ave., San Francisco 24, Calif. (B-Hvy)
Anderson, O. E., 1075 N. 10th St., Box 251,
San Jose, Calif. (B)
Ashby & Opperman, P. O. Box 127, Bakers-
field, Calif. (B)
B. & R. Constr. Co., 110 Market St., San
Francisco 11, Calif. (B)
Bardell, Robt., 2733 Linden St., Oakland 12,
Calif. (B)
Barnes, Jos. L., 750 Folsom St., San Francisco
7, Calif. (B)
Barrett & Hilp, 918 Harrison St., San Fran-
cisco 7, Calif. (B-Hvy)
Beckett & Federighi, 1441 Franklin St., Oak-
land 12, Calif. (B-Hvy)
Bristol, Mark, 1973 Oakcrest Dr., Oakland 2,
Calif. (B)
Bryant, J. A., 1806 Capitol St., Vallejo, Calif.
(B)
Cahill Bros., Inc., 206 Sansome St., San
Francisco 4, Calif. (B-Hvy)
Campbell Constr. Co., P. O. Box 390, Sacra-
mento 2, Calif. (B-Hvy)
Carlen Constr. Co., Monadnock Bldg., 681
Market St., San Francisco 5, Calif. (B)
Carrico & Gautier, 365 Ocean Ave., San Fran-
cisco 12, Calif. (B-Hvy)
Carroll, A. C., 130 College Ave., Modesto,
Calif. (B)
Casey & Case Foundation Co., 1337 2d St.,
Berkeley 10, Calif. (B-Hvy)
Central California Constr. Co., 75 Elmira St.,
San Francisco 24, Calif. (B-Hvy)
Christensen & Lyons, 3454 Harlan St., Oak-
land 8, Calif. (B-Hvy)
Clinton Constr. Co., 923 Folsom St., San
Francisco 7, Calif. (B-Hvy)
Concrete Conduit Co., 899 S. La Cadena
Ave., P. O. Box 31, Colton, Calif. (Hvy)
Condict Co., 806 Hearst Ave., Berkeley 2,
Calif. (B)
Daley, Morris, Rm. 211, 1350 Howard Ave.,
Burlingame, Calif. (B)
De Luca & Son, 1745 Filbert St., San Fran-
cisco 23, Calif. (B-Hvy)
Dinwiddie Constr. Co., Inc., 210 Crocker
Bldg., San Francisco 4, Calif. (B-Hvy)
Donahue, E. J., 355 E. Market St., Salinas,
Calif. (B)
Dunn, Louis C., Inc., 681 Market St., San
Francisco 5, Calif. (B-Hvy)

Early, Fred J., Jr., Co., Incorporated, 369
Pine St., San Francisco 4, Calif. (B-
Hvy)
Ehorn, Liston, 925 Jackson St., P. O. Box 328,
Red Bluff, Calif. (B)
Ellingson, Thos., 2896 16th St., San Fran-
cisco 3, Calif. (B)
Emseo of San Francisco, 1020 Harrison St.,
San Francisco 3, Calif. (B)
Engineers, Ltd., 225 Bush St., San Fran-
cisco 4, Calif. (B-Hvy)
Erben-traut & Summers, 696 Pennsylvania
Ave., San Francisco 7, Calif. (B-Hvy)
Erickson Constr. Co., 1119 E. Bassettlaw Ave.,
North Sacramento, Calif. (B)
F. & O. Corp., 6796 Mission St., Daly City,
Calif. (B)
Falasco, T., 958 J St., Los Banos, Calif. (B)
Faull, Donald L., 1236 Cleveland Ave., Santa
Rosa, Calif. (B)
Fife & Stoddard, W. Biggs Rd., P. O. Box
186, Gridley, Calif. (B)
Fisher, Alfred P., 300 Montgomery St.,
San Francisco 4, Calif. (B)
Fitchett, Leslie, & Son, P. O. Box 1495,
Merced, Calif. (B)
Fitzmaurice, J. H., 2857 Hannah St., Oak-
land 8, Calif. (B-Hvy)
Freethy, Elmer J., 1432 Kearny St., El Cer-
rito, Calif. (B-Hvy)
Geyer, Harold C., 787 Munras Ave., Box 1190,
Monterey, Calif. (B-Hvy)
Giusto, B. L., 40 Ringold St., San Francisco
3, Calif. (B)
Goodenough, Wells P., 49 Wells Ave., Box
120, Palo Alto, Calif. (B-Hvy)
Gould Constr. Co., The, 680 Laurel St., San
Carlos, Calif. (B)
Graham & Jensen, P. O. Box 1208, Merced,
Calif. (B)
Gresham Constr. Co., P. O. Box 300, Santa
Clara, Calif. (B)
Harris Constr. Co., Inc., P. O. Box 109,
Fresno, Calif. (B)
Harris & Fjeldheim, Inc., 1008 Alma St.,
Menlo Park, Calif. (B)
Hathaway, E. A., & Co., 1098 S. 5th St., San
Jose 12, Calif. (B)
Hedahl-Martin Co., The, 501 Standish St.,
Redwood City, Calif. (B)
Hopper, A. J., Co., 345 Franklin St., San
Francisco 2, Calif. (B)
Horstmeyer, Wm., Co., 23 Mars St., San
Francisco 14, Calif. (B)
Hubbard & Son, 925 Columbia St., Turlock,
Calif. (B)
Indenco, 960 98th Ave., Oakland 3, Calif.
(B)
Jacks & Irvine, 620 Market St., San Fran-
cisco 4, Calif. (B-Hvy)
Jenks, Paul I., Rt. 2, P. O. Box 1050, Grass
Valley, Calif. (B)
Johnson, Drake & Piper, Inc., 9009 San
Leandro St., Oakland 3, Calif. (B-Hvy)
Jones, Lewis P., 1535 S. 10th St., San Jose,
Calif. (B-Hvy)
Kelley & Peletz, 545 Francisco St., San Fran-
cisco 11, Calif. (B)
King, M. J., Inc., 231 Franklin St., San Fran-
cisco 2, Calif. (B)
Larsen, Ira H., Co., 64 S. Park, San Fran-
cisco 7, Calif. (B)

Larsen & Larsen, Inc., 2455 Mason St., San
Francisco 11, Calif. (B)
Lena, Nat, 1174 19th St., Oakland 7, Calif.
(B-Hvy)
Lewis, Nelson T., 723 C St., Hayward,
Calif. (B)
Lewis, R. C., Constr., Inc., 1815 Telegraph
Ave., Oakland 12, Calif. (B-Hvy)
Litchfield Constr. Co., 721 Francisco Blvd.,
San Rafael, Calif. (B)
Little, Matthew A., 1 Grand View Ave., San
Francisco 14, Calif. (B)
Lynn, Willis F., 1037 Ashmont, Oakland 10,
Calif. (B)
May, Wilfred H., 1801 Notre Dame Ave., Bel-
mont, Calif. (B)
Mayfield, N. R., Tahoe City, Calif. (B)
McCarthy, Robt., Co., 1050 Kirkham St.,
San Francisco 22, Calif. (B-Hvy)
McCoy & Butler, Teegarden & Sutter St.,
Yuba City, Calif. (B)
McGranahan, K. J., 500 Spring St., Santa
Cruz, Calif. (B)
McKittrick, E. S., Co., Inc., 610 16th St., Oak-
land 12, Calif. (B-Hvy)
Midstate Constr. Co., 427 Bryant St., San
Francisco 7, Calif. (B-Hvy)
Millie, G. O., Constr. Co., Irwin & Lovell Sts.,
San Rafael, Calif. (B)
Modern Bldg. Co., P. O. Box 635, Chico,
Calif. (B)
Monson Bros., 475 6th St., San Francisco 3,
Calif. (B-Hvy)
Moore & Roberts, Inc., 693 Mission St., San
Francisco 5, Calif. (B-Hvy)
Morton, Jas. P., Constr. Co., 33 Clay St.,
Placerville, Calif. (B)
Newsom & Netherby Bldrs., 515 Las Palmas,
North Sacramento, Calif. (B)
Nicholson, D. W., Corp., 1701 San Leandro
Bldg., San Leandro, Calif. (B-Hvy)
Norlie Constr. Co., P. O. Box 716, 2209 Park
Ave., Chico, Calif. (B)
Odman, Arthur, P. O. Box 147, Fair Oaks,
Calif. (B)
Olsen, Walter L., 966 Sonoma Ave., Santa
Rosa, Calif. (B)
Otto, C. A., 717 10th St., Marysville, Calif.
(B)
Overaa, C., & Co., Inc., 520 16th St., Rich-
mond, Calif. (B)
Pacific Bldrs., P. O. Box 1612, Salinas, Calif.
(B-Hvy)
Pacific Coast Bldrs., 2530 18th St., San Fran-
cisco 10, Calif. (B)
Pacific Co., The, 158 Santa Clara Ave., Oak-
land 10, Calif. (B)
Parker, Steffens & Pearce, 135 S. Park, San
Francisco 7, Calif. (B-Hvy)
Payne Constr. Co., Inc., 876 Harrison St., San
Francisco 7, Calif. (B)
Payne, Frank A., & Son, 8 Overhill Rd.,
Orinda, Calif. (B)
Peterson, C. Norman, Constr., 2832 9th St.,
Berkeley 2, Calif. (B)
Phillips, C. S., 139-A Redwood Hwy., No.,
Petaluma, Calif. (B)
Pike & Hill, P. O. Box 27, Diablo, Calif. (B)
Prichard, Thos. J., Jr., 1606 Bremer Ave.,
Fresno, Calif. (B)
Reese, Morrison W., 1262 Minnesota Ave.,
San Jose 25, Calif. (B)

(Symbols following names indicate type of construction performed by company; B—Building; H—Highway; Hvy—Heavy; RR—Railroad.)

A.G.C. DIRECTORY

CALIFORNIA—Continued

- Robertson, H. W., Inc., 2917 T St., Sacramento 16, Calif. (B-Hvy)
 Rosewall, T. H., 544 Main St., Watsonville, Calif. (B)
 Rousseau, Oliver M., Co., 110 Sutter St., San Francisco 4, Calif. (B)
 Sartorio, Peter, 262 Clementina St., San Francisco 3, Calif. (B)
 Schell, Fred W., 41 Sutter St., San Francisco 4, Calif. (B)
 Sjöberg, N. H., & Son, 5604 E. 16th St., Oakland 3, Calif. (B)
 Sommer, I. M., & Co., 593 Market St., San Francisco 5, Calif. (B)
 Standard Bldg. Co., 2222 19th Ave., San Francisco 16, Calif. (B)
 Starrett Brothers and Eken, Incorporated, 131 Font Blvd., San Francisco 27, Calif. (B-Hvy)
 Stendell, Elvin C., 26th & Kansas Sts., San Francisco 10, Calif. (B)
 Stockholm, Chas., & Sons, 351 California St., San Francisco 4, Calif. (B)
 Swenson, Carl N., Co., 1095 Stockton Ave., P. O. Box 558, San Jose 4, Calif. (B-Hvy)
 Swinerton & Walberg Co., 225 Bush St., San Francisco 4, Calif. (B-H)
 Tait, W. C., 2300 Mason St., San Francisco 11, Calif. (B-Hvy)
 Thompson, Donald, Rt. 5, Box 2270, Modesto, Calif. (B)
 Todd, R. R., 915 Beaver St., Santa Rosa, Calif. (B)
 Tornell Constr. Co., 45 E. 6th St., Tracy, Calif. (B)
 Van Bokkelen-Cole Co., 955 22d St., Oakland, Calif. (B)
 White, Howard J., Inc., 44 Encina Ave., Palo Alto, Calif. (B)
 Williams & Burrows, Inc., 10 California Dr., Burlingame, Calif. (B-Hvy)
 Willoughby, A. B., 1229 E. Alisal St., Salinas, Calif. (B)
 Wisner & Miller, 730 N. California St., Lodi, Calif. (B)
- (b) NORTHERN CALIFORNIA CHAPTER**
- President—A. Earl Holt, Guy F. Atkinson Co., 10 W. Orange Ave., P. O. Box 593, South San Francisco, Calif.**
Secretary-Manager—Winfield H. Arata, 785 Market St., San Francisco 3, Calif.
Telephone: Garfield 1-7107
- Ace Excavators, 1020 44th Ave., Oakland 1, Calif. (H-Hvy)
 Alves, Eugene G., P. O. Box 950, Pittsburg, Calif. (H-Hvy)
 Amaral, M., 512 Baker St., Petaluma, Calif. (H-Hvy)
 Anderson Co., P. O. Box 1190, Visalia, Calif. (H-Hvy)
 Archibald, F. R., 718 Douglas Ave., Oakland 3, Calif. (Hvy)
 Archibald, J. O., 929 Shasta St., Redwood City, Calif. (H)
 Ariss-Knapp Co., 961 41st St., Oakland 8, Calif. (H-Hvy)
 Armstrong, J. R., 400 Central Ave., El Cerrito, Calif. (H-Hvy)
 Artukovich, P. & J., Inc., Rt. 3, Box 426, Modesto, Calif. (Hvy)
 Associated Engrs., 3606 El Camino Real, Palo Alto, Calif. (H-Hvy)
 Associated Pipeline Welders, Inc., P. O. Box 563, Colma 25, Calif. (Hvy)
 Asta Constr. Co., P. O. Box 474, Rio Vista, Calif. (Hvy)
 Atkinson, Guy F., Co., 10 W. Orange Ave., P. O. Box 593, South San Francisco, Calif. (H-Hvy)
 Atkinson, Wm. Russell, 5334 E. Tulare St., Fresno, Calif. (B-Hvy)
 Augusta, Geo., 594 El Camino North, P. O. Box 1545, Salinas, Calif. (H-Hvy)
 Bailey, Jay, Constr. Co., P. O. Box 521, Lafayette, Calif. (B-Hvy)
 Baldwin, Straub Corp., 26 Francisco Blvd., San Rafael, Calif. (B-H-Hvy)
 Ball, N. M., Sons, 685 Delaware St., Berkeley 10, Calif. (H-Hvy)
 Ball & Simpson, 685 Delaware St., Berkeley 10, Calif. (H-Hvy)
 Ballinger, W. R., & Son, 355 Barneveld Ave., San Francisco 24, Calif. (Hvy)
 Barbettini, E., 2251 Quesada Ave., San Francisco 24, Calif. (H-Hvy)
 Bateman, J. C., 650 Stockton Ave., San Jose 11, Calif. (H-Hvy)
 Bates & Rogers Construction Corporation, Rm. 1122, 209 Post St., San Francisco 8, Calif. (Hvy-RR)
 Baun Constr. Co., 324 Princeton, Fresno, Calif. (H-Hvy)
 Bechtel Corp., 220 Montgomery St., San Francisco 4, Calif. (B-H-Hvy)
 Beerman & Jones, Sonora, Calif. (H)
 Bell, Ralph A., 901 S. Primrose Ave., Monrovia, Calif. (Hvy)
 Biasotti, Louis, & Son, 40 W. Clay St., Stockton 36, Calif. (H-Hvy)
 Bigge Drayage Co., 2387 Campbell St., Oakland 7, Calif. (Hvy)
 Bird Development Co., 414 E. Miner St., Stockton, Calif. (H-Hvy)
 Bishop, E. B., Orland, Calif. (H-Hvy)
 Blakeslee-Spierung Co., Palace Hotel, P. O. Box 667, Ukiah, Calif. (B-Hvy)
 Blomquist Oil Service, Inc., P. O. Box 431, Redwood City, Calif. (H)
 Bobo, Fabian, Rt. 1, Box 30, San Rafael, Calif. (H)
 Bormolini, Louis, & Son, P. O. Box 101, Novato, Calif. (B-H-Hvy)
 Bragato Paving Co., P. O. Box 308, San Carlos, Calif. (H)
 Breen, J. P., P. O. Box 183, Sacramento 1, Calif. (H-Hvy)
 Brennan, J. P., Zeis Bldg., Redding, Calif. (B-Hvy)
 Bressi & Bevanda Constrs., Inc., P. O. Box 439, North Hollywood, Calif. (Hvy-RR)
 Brighton Sand & Gravel Co., P. O. Box 2604, Sacramento 10, Calif. (H-Hvy)
 Brown-Ely Co., 7360 Schmidt Lane, P. O. Box 156, El Cerrito, Contra. Costa County, Calif. (H-Hvy)
 Brown, M. W., Box 222, Redding, Calif. (H-Hvy)
 Burman, John, & Sons, 2750 Harrison Ave., Eureka, Calif. (H-Hvy)
 Burnett Constr. Co., 159 W. Glenn St., P. O. Box 487, Coalinga, Calif. (Hvy)
 Butte Creek Rock Co., P. O. Box 512, Chico, Calif. (H-Hvy)
 California Steel Prods. Co., Ind. Constr. & Maint. Div., Barrett Ave. & "A" St., Richmond, Calif. (Hvy)
 Callahan Constr. Co., 7328 Mission St., Daly City, Calif. (H-Hvy)
 Campbell Constr. & Equip. Co., 465 10th St., San Francisco 3, Calif. (H-Hvy-RR)
 Cannon Constr. Co., P. O. Box 1947, Stockton, Calif. (H-Hvy)
 Capital Co., 1 Powell St., San Francisco 2, Calif. (B-Hvy)
 Capps, Gordon L., P. O. Box 583, Stockton, Calif. (H-Hvy)
 Cardwell, Leo, Constr. Co., 530 Pacific Ave., Santa Cruz, Calif. (H-Hvy)
 Castro, Earl W., Rt. 2, Box 202, Martinez, Calif. (H-Hvy)
 Cecchetti & Son, 752 Columbus Ave., San Francisco 11, Calif. (B-H)
 Central State Constr. Co., Inc., 593 Market St., San Francisco 5, Calif. (B-Hvy)
 Chevreux, Joe, P. O. Box 65, Sta. A, Auburn, Calif. (H-Hvy)
 Chittenden & Chittenden, P. O. Box 246, Auburn, Calif. (H-Hvy)
 Clark, L. C., 422 Park Ave., Visalia, Calif. (H-Hvy)
 Clements & Co., P. O. Box 277, 775 Jackson St., Hayward, Calif. (H)
 Cleverdon Co., Inc., Rt. 1, Box 1, Lafayette, Calif. (H-Hvy)
 Clifford, R. G., 2950 Claremont Ave., Berkeley, Calif. (H-Hvy)
 Close Bldg. Supply, 721 C St., Hayward, Calif. (H)
 Clough, L. M., Co., 996 66th Ave., Oakland 3, Calif. (H-Hvy)
 Conduit Constr. Co., 3510 Peralta St., Oakland 8, Calif. (Hvy)
 Conner, Harvey E., P. O. Box 1012, Redwood City, Calif. (Hvy)
 Conner, J. L., Jr., Box 835, Eureka, Calif. (H)
 Corbett, Frank D., 99 N. 17th St., Sacramento 14, Calif. (B-Hvy)
 Corbett & Smith, 99 N. 17th St., Sacramento 14, Calif. (B-H-Hvy)
 Crocco & Hanson, 1010 Tennessee St., Vallejo, Calif. (H-Hvy)
 Cunningham, Chas. L., Co., 334 S. Yosemite Ave., P. O. Drawer E, Oakdale, Calif. (B-Hvy)
 Dahms, O. R., Constr. Co., Rt. 7, Box 1143, Sacramento, Calif. (Hvy)
 daRozza & Ribal, Inc., P. O. Box 1727, Monterey, Calif. (B-H)
 Darrough, W. H., & Sons, P. O. Box 392, Live Oak Hwy., Yuba City, Calif. (H-Hvy)
 Delphia, John, P. O. Box 607, 14 N. 3d St., Patterson, Calif. (H-Hvy)
 Delta Constr. Co., P. O. Box 457, Rio Vista, Calif. (H-Hvy)
 Douglass & Woodhouse, P. O. Box 908, Redwood City, Calif. (H)
 Downer Co., Inc., 305 E. Weber St., Stockton 11, Calif. (H-Hvy)

CALIFORNIA—Continued

- Draper, Archie, P. O. Box 266, 738 Main St., Red Bluff, Calif. (H-Hvy)
- Duncan-Harrelson Co., The, 530 W. Cutting Blvd., Richmond, Calif. (Hvy)
- Eaton & Smith, 1215 Michigan St., San Francisco 7, Calif. (H-Hvy-RR)
- Edwards, Jas. J., 904 Elm St., San Carlos, Calif. (Hvy)
- Ehrhart & Arthur, Inc., 417 S. Hill St., Los Angeles 13, Calif. (B-Hvy)
- Eichleay Corp., 322 Monadnock Bldg., 681 Market St., San Francisco 5, Calif. (Hvy)
- Ely, I. J. Co., 665 Butterfield Rd., San Anselmo, Calif. (H)
- Emco of San Francisco, 1020 Harrison St., San Francisco 3, Calif. (B-H-Hvy)
- Engineered Fixture Systems, P. O. Box 203, Mountain View, Calif. (B-Hvy)
- Engineers Ltd. Pipeline Co., 2128 San Pablo Ave., El Cerrito, Calif. (Hvy)
- Erickson, Al. & Co., P. O. Box 384, Napa, Calif. (H-Hvy)
- Erickson, Phillips & Weisberg, 3341 Telegraph Ave., Oakland 9, Calif. (H-Hvy)
- Fairfield Trucking Co., Box 568, Fairfield, Calif. (H-Hvy)
- Farish, Robt. A., 50 Hawthorne St., San Francisco 5, Calif. (H)
- Fay Improvement Co., 101 Carolina St., San Francisco 3, Calif. (H-Hvy)
- Fazio, Walter E., 981 Coronado Blvd., Sacramento, Calif. (B-Hvy)
- Ferguson Bros., 8923 San Leandro St., Oakland 3, Calif. (Hvy)
- Fogelberg, O. A., Mt. Diablo Blvd. & Elizabeth St., Lafayette 2, Calif. (Hvy)
- Forde, E. A., 640 Sir Francis Drake Blvd., San Anselmo, Calif. (H)
- Foster & McHarg, P. O. Box 1589, Marysville, Calif. (H-Hvy)
- France, Geo. E., P. O. Box 831, Visalia, Calif. (H)
- Francis Constr. Co., 1929 Sonoma Ave., Santa Rosa, Calif. (B-Hvy)
- Fredericksen & Kasler, 212 13th St., Sacramento, Calif. (H-Hvy)
- Fredrickson Bros., 1259 65th St., Emeryville 8, Calif. (B-H-Hvy)
- Fredrickson & Watson Constr. Co., 873 81st Ave., Oakland 3, Calif. (B-H-Hvy)
- French, Geo., Jr., Box 307, 2101 E. Weber St., Stockton, Calif. (H-Hvy-RR)
- Gallagher & Burk, Inc., 344 High St., Oakland, Calif. (H-RR)
- Gerwick, Ben C., Inc., 112 Market St., San Francisco 11, Calif. (H-Hvy)
- Gist, John C., 1020 46th St., Sacramento 16, Calif. (Hvy)
- Granite Constr. Co., Box 900, Watsonville, Calif. (B-H-Hvy-RR)
- Haas, E. T., Co., 407 Harbor Blvd., P. O. Box 95, Belmont, Calif. (B-H-Hvy-RR)
- Haas & Rothschild, 274 Brannon St., San Francisco 7, Calif. (B-Hvy)
- Harkins, Wallace D., 635 Jackson St., Albany 6, Calif. (B-Hvy)
- Harmeling, Carl C., 1710 Mt. Diablo, Stockton, Calif. (H-Hvy)
- Harms Bros., 5261 Stockton Blvd., Sacramento 17, Calif. (H-Hvy)
- Harney, Chas. L., Inc., 575 Berry St., San Francisco 7, Calif. (H-Hvy)
- Harris, J. Henry, 2657 9th St., Berkeley 2, Calif. (H)
- Helwig Constr. Co., 167 Morris Ave., Sebastopol, Calif. (B-H-Hvy)
- Hoagland-Findlay Engr. Co., 3254 Cherry Ave., Long Beach 7, Calif. (B-Hvy)
- Huettig, Schromm & Bennett, P. O. Box 798, 300 Bryant St., Palo Alto, Calif. (H-Hvy)
- Huntington Bros., 9 Lansdale Ave., San Anselmo, Calif. (H-Hvy)
- Immel, Lee J., 3030 San Pablo Ave., San Pablo, Calif. (H-Hvy)
- Independent Constr. Co., 741 50th Ave., Oakland 1, Calif. (B-H-Hvy-RR)
- Industrial Engrs. & Contrs., Inc., 711 Middle Waterway, Tacoma, Wash. (B-Hvy)
- Jenkins, M. A., & R. E. Hertel, 4521 15th Ave., Sacramento 17, Calif. (H-Hvy)
- Johnson, A. C., & Sons, 25 6th St., Eureka, Calif. (B-Hvy)
- Johnson & Nelson, 718A San Anselmo Ave., San Anselmo, Calif. (H-Hvy)
- Jones, Lew, Constr. Co., 1535 S. 10th St., San Jose, Calif. (H-Hvy)
- Jones, O. C., & Sons, 1520 4th St., Berkeley 10, Calif. (B-H-Hvy)
- Jones, W. B., Palo Cedro, Calif. (H-Hvy)
- Justice-Dunn Co., 1260 59th St., Oakland 8, Calif. (H)
- Kaiser Engrs., Div. of Kaiser Inds., Inc., 1924 Broadway, Oakland 12, Calif. (Hvy)
- Keeble, Edw., Rt. 4, Box 64, San Jose, Calif. (H-Hvy)
- Kelley Bros., 810 San Ramon, Sacramento, Calif. (H-Hvy)
- Kenworthy, C. V., Rt. 2, Box 654, Stockton, Calif. (H-Hvy)
- Kevry Constr., Inc., 655 Peralta St., San Leandro, Calif. (H-Hvy)
- Kiewit, Peter, Sons' Co., Box E, Shafter, Calif. (Hvy)
- Koller, Stanley H., 1694 Pomona St., Crockett, Calif. (H-Hvy)
- Lane, E. V., Co., 3101 3d St., P. O. Box 417, Palo Alto, Calif. (H-Hvy)
- Lee Constr. Co., 1575 Lake Chabot Rd., San Leandro, Calif. (H-Hvy)
- Lentz Constr. Co., 2416 Sutterville Rd., Sacramento 17, Calif. (H-Hvy)
- Lord & Bishop, P. O. Box 812, Sacramento 4, Calif. (H-Hvy-RR)
- Lowell, E. E., P. O. Box 148, Vallejo, Calif. (H-Hvy)
- Lowrie Paving Co., 1755 Evans Ave., San Francisco 24, Calif. (H)
- Lyles, W. M., Co., P. O. Box 495, Avenal, Calif. (Hvy)
- Lynch, M. J., 2251 Revere Ave., San Francisco 24, Calif. (H-Hvy)
- M. G. M. Constr. Co., P. O. Box 1056, Market St., Concord, Calif. (Hvy)
- M. J. B. Constr. Co., 322 Elks Bldg., Stockton 1, Calif. (H-Hvy)
- M & K Corp., 200 Financial Center Bldg., San Francisco 4, Calif. (B-H-Hvy-RR)
- Macal Improvement Co., Inc., Rt. 1, Box 99, Wilbur Ave., Antioch, Calif. (H-Hvy)
- MacClosky, Chas., Co., 112 Market St., San Francisco 11, Calif. (B-Hvy)
- Macco Constr. Co., Inc., Box 638, Brisbane, Calif. (H-Hvy)
- MacDonald, Young & Nelson, Inc., 351 California St., San Francisco 4, Calif. (B-H-Hvy-RR)
- Malfitano, M., & Son, Inc., P. O. Box 750, Pittsburg, Calif. (H-Hvy)
- Marks, Frank B., Jr., P. O. Box 668, Newman, Calif. (H-Hvy)
- Marks, Howard E., 203 Berverdor St., Tracy, Calif. (H-Hvy)
- Marshall, S. A., P. O. Box 767, Quincy, Wash. (H-Hvy)
- Martin Bros., Inc., P. O. Box 5, Concord, Calif. (H-Hvy)
- Martin, Guy T., & Co., 642 E. Olive St., P. O. Box 432, Gardena, Calif. (B-Hvy)
- Maurer, Fred J., & Son, 125 W. 5th St., Eureka, Calif. (B-Hvy)
- McAnulty, J. H., 382 E. 10th Ave., Chico, Calif. (H-Hvy)
- McCosker, A. J., Eastshore Hwy. & Cedar St., Berkeley 2, Calif. (H)
- McCosker, John H., Inc., 1501 Eastshore Hwy. at Jones St., Berkeley, Calif. (H-Hvy)
- McElderry, B. S., 2355 Virginia St., Berkeley 9, Calif. (Hvy)
- McFadden, Jos., & Son, P. O. Box 915, Palo Alto, Calif. (H)
- McGillivray Constr. Co., P. O. Box 873, Sacramento, Calif. (H-Hvy)
- McGowan, M. B., Inc., 625 Market St., San Francisco 5, Calif. (Hvy)
- McGuire & Hester, 796 66th Ave., Oakland 3, Calif. (Hvy)
- Mercer-Fraser Co., 2d & Commercial Sts., Eureka, Calif. (B-H-Hvy-RR)
- Miller, A. L., 1715 7th St., Sacramento, Calif. (H-Hvy)
- Miller & Henkel, 930 Monte, Fresno, Calif. (H-Hvy)
- Mincey Constr. Co., 5277 Folsom Blvd., Sacramento 19, Calif. (B-Hvy)
- Mobilhome Corp. of America, The, 115 Inyo St., Bakersfield, Calif. (B-Hvy)
- Montgomery, T. M., P. O. Box 311, 985 Lincoln Way, Auburn, Calif. (H)
- Moore, Cecil L., P. O. Box 166, San Leandro, Calif. (H-Hvy)
- Moore, P. J., & Son, P. O. Box 515, Tracy, Calif. (H-Hvy)
- Morrison-Knudsen Co., Inc., 74 New Montgomery St., San Francisco 5, Calif. (B-H-Hvy)
- Munn & Perkins, P. O. Box 1092, 801 S. Old 99 Hwy., Modesto, Calif. (H-Hvy)
- Murphy, Martin, Rt. 2, Box 894, Walnut Creek, Calif. (Hvy)
- Nomellini Constr. Co., P. O. Box 1177, Stockton, Calif. (B-Hvy)
- Oakland Sewer Constr. Co., R.R. Box 282, Walnut Creek, Calif. (H-Hvy)
- O'Connor Bros., P. O. Box 630, 750 Madison St., Red Bluff, Calif. (B-H-Hvy)
- O'Connor, J. D., Constr. Co., Inc., 640 Sir Francis Drake Blvd., P. O. Box 338, San Anselmo, Calif. (B-H-Hvy)
- O'Hair, W. H., Co., 11th & Main Sts., P. O. Box 331, Colusa, Calif. (H-Hvy)

(Symbols following names indicate type of construction performed by company; B—Building; H—Highway; Hvy—Heavy; RR—Railroad.)

CALIFORNIA—Continued

Olympian Dredging Co., 525 Market St., San Francisco 5, Calif. (H)
 Pacific Bridge Co., 333 Kearny St., San Francisco 8, Calif. (H-Hvy-RR)
 Pacific Pavements Co., Ltd., 85 Barstow St., San Francisco 7, Calif. (H-Hvy)
 Page, T. M., Corp., P. O. Box 491, Roseville, Calif. (H-Hvy)
 Parish Bros., P. O. Box 6, Benicia, Calif. (H-Hvy)
 Parker, H. Earl, Inc., 531 12th St., Marysville, Calif. (H-Hvy)
 Paroline, John B., E. Dunne Ave., Morgan Hill, Calif. (H-Hvy)
 Patterson, Geo. R., P. O. Box 2004, Stockton, Calif. (H-Hvy)
 Peira, U. & Son, 292 Ocean Ave., San Francisco 12, Calif. (H-Hvy)
 Peters, A. J., & Son, P. O. Box 632, 534 Stockton Ave., San Jose, Calif. (Hvy)
 Peterson, E. H., & Son, 5691 San Pablo Dam Rd., Richmond, Calif. (B-Hvy)
 Peterson, O. G., 511 Diehl Ave., San Leandro, Calif. (H-Hvy)
 Piazza, Leo F., Paving Co., Rt. 1, Box 800, Downer Ave. near Almaden Rd., San Jose, Calif. (H)
 Pine Flat Contrs., P. O. Box 277, Sanger, Calif. (Hvy)
 Piombo Constr. Co., 1571 Turk St., San Francisco 15, Calif. (H-Hvy)
 Pollock, Geo., Co., P. O. Box 903, Sacramento 5, Calif. (H-Hvy-RR)
 Pomeroy, J. H., & Co., Inc., 333 Montgomery St., San Francisco 4, Calif. (H-Hvy)
 Radtke, Wm., & Son, 40 Martin St., Gilroy, Calif. (B-Hvy)
 Raich, A. G., Co., P. O. Box 458, San Rafael, Calif. (H-Hvy)
 Raich, A. J., Paving Co., 900 W. San Carlos St., San Jose 26, Calif. (H-Hvy)
 Ransome Co., 4030 Hollis St., Emeryville 8, Calif. (H-Hvy)
 Rapp, Robt. M., Co., 705 Bennett Ave., Santa Rosa, Calif. (Hvy)
 Rapp, Wm. D., 705 Bennett Ave., Santa Rosa, Calif. (B-Hvy)
 Reeves, J. R., P. O. Box 1072, Sacramento 5, Calif. (H)
 Reid, A. R., Co., 2600 Oakdale Ave., San Francisco 24, Calif. (H-Hvy)
 Renz, Geo. C., Box 6, Hecker Pass Hwy., Gilroy, Calif. (B-Hvy)
 Rice Bros., Inc., 8th & Yuba St., P. O. Box 1489, Marysville, Calif. (H-Hvy)
 Richards, Gene, Inc., 165 N. H St., Fresno, Calif. (H-Hvy)
 Rolandi, F. S., Jr., Inc., 617 Montgomery St., San Francisco 11, Calif. (B-Hvy)
 Rousseau, Oliver, Co., 110 Sutter St., San Francisco 4, Calif. (B-Hvy)
 Ruby, H. W., 2851 Northrup Ave., Sacramento, Calif. (H-Hvy)
 Ruddy, M. J., & Son, 922 "J" St., Modesto, Calif. (H-Hvy)
 S. A. E. Co., P. O. Box 968, Redwood City, Calif. (H-Hvy)
 Schader, A. D., 164 Spear St., San Francisco 5, Calif. (H-Hvy-RR)
 Shuper, M. E., Co., 203 Elks Bldg., Stockton, Calif. (B-Hvy)

Sincock, Pomeroy, 1770 N. Hunter St., Stockton, Calif. (H-Hvy)
 Siri, Arthur B., Inc., 1356 Cleveland Ave., Santa Rosa, Calif. (H)
 Smith, Frank W., Constr. Co., Box 726, San Mateo, Calif. (H-Hvy)
 Smith, Harold, 1725 Main St., St. Helena, Calif. (H-Hvy)
 Smith, L. C., 1st & R.R., San Mateo, Calif. (H-Hvy)
 Smith, Wm. A., Contr. Co. of California, P. O. Box 1506, Oakland, Calif. (Hvy-RR)
 Sondgroth Bros., 318 Sierra Vista Ave., Mountain View, Calif. (H-Hvy)
 Sorensen, Peter, 927 Arguello St., Redwood City, Calif. (B-Hvy)
 Spears Constr. Co., P. O. Box 1124, Modesto, Calif. (B-Hvy)
 Stacy, Geo. R., P. O. Box 457, Tullake, Calif. (H-Hvy)
 Standard Materials Co., 1411 9th St., Modesto, Calif. (H)
 Standard Structures, Inc., 28 Francisco Blvd., San Rafael, Calif. (H-Hvy)
 Standard Water & Sewage Prods., Inc., Rt. 7, Box 1143, Sacramento, Calif. (Hvy)
 Staring & Galbraith, 3432 Mirasol Ave., Oakland 5, Calif. (H)
 Stephens Trucking Co., 39 E. Pine St., Stockton, Calif. (H-Hvy)
 Stockton Constr. Co., Inc., P. O. Box 2087, 639 W. Clay St., Stockton, Calif. (H-Hvy)
 Stoltz, Inc., 8451 San Leandro St., Oakland 3, Calif. (B)
 Stone & Webster Engineering Corp., 235 Montgomery St., San Francisco 4, Calif. (B-Hvy)
 Strizek, Jere, 2418 El Paseo Lane, Town & Country Village, Sacramento 15, Calif. (B-Hvy)
 Syar, C. M., P. O. Box 1431, Vallejo, Calif. (H-Hvy)
 Teichert, A., & Son, Inc., 1846 37th St., Sacramento 5, Calif. (H-Hvy-RR)
 Thomas, B. Miles, 67 Buena Vista Terr., San Francisco 17, Calif. (H-Hvy)
 Thomas Constr. Co., 4929 Hedges Ave., Fresno 2, Calif. (Hvy)
 Thomas G. W., Drayage & Rigging Co., Inc., 114 14th St., San Francisco 3, Calif. (Hvy)
 Thomas Rigging Co., 1505 62d St., Emeryville 8, Calif. (Hvy)
 Till, Archie L., P. O. Box 346, Yuba City, Calif. (H-Hvy)
 Tobin, Edwin J., Co., 1000 Carleton St., Berkeley 2, Calif. (Hvy)
 Tout, J. R., Co., Inc., 1631 Home Ave., Fresno, Calif. (B-H-Hvy)
 Transocean Engr. Corp., 15890 Hesperian Blvd., San Lorenzo, Calif. (Hvy)
 Triangle Constr. Co., 2440 Sutterville Rd., Sacramento, Calif. (B-Hvy)
 Tuttle, C. B., Co., 268 Belmont Ave., Long Beach 3, Calif. (Hvy)
 Tyson, Dana R., Co., 1201 10th Ave., Sacramento 18, Calif. (B-H-Hvy)
 Tyson & Watters, Inc., P. O. Box 1914, Sacramento, Calif. (B-Hvy)
 Underground Constr. Co., 75th Ave. at San Leandro Blvd., Oakland 3, Calif. (Hvy)

United Concrete Pipe Corp., Box 425, Baldwin Park, Calif. (H-Hvy)
 Utah Construction Co., The, 1 Montgomery St., San Francisco 4, Calif. (B-H-Hvy-RR)
 Valley Paving & Constr. Co., Inc., P. O. Box 6, Pismo Beach, Calif. (H-Hvy)
 Valley Trenching Co., Hwy. 99 So., Fresno, Calif. (Hvy)
 Van Valkenburgh, N. P., & Co., P. O. Box 1192, Sacramento, Calif. (B-H-Hvy)
 Vega Engr. & Grading Co., 1214 4th St., Berkeley 10, Calif. (H-Hvy)
 Vicini, Joe, P. O. Box 206, Placerville, Calif. (H-Hvy)
 Volpa Bros., 233 Nielsen Ave., Fresno, Calif. (H-Hvy)
 Walsh Construction Company, 785 Market St., San Francisco 3, Calif. (Hvy)
 Watkins, Ted, Linden, Calif. (H-Hvy)
 Westbrook & Pope, 2331 Fair Oaks Ave., Sacramento 16, Calif. (H-Hvy-RR)
 Western Contracting Corporation, P. O. Box 1071, Los Banos, Calif. (H-Hvy)
 Western Crane Service, 1230 6th St., Berkeley 10, Calif. (H-Hvy)
 Wood, Claude C., Co., Box 599, Lodi, Calif. (B-H-Hvy-RR)
 Wood, Clyde W., & Sons, Inc., 6900 Tujunga Ave., P. O. Box 620, North Hollywood, Calif. (B-H-Hvy)
 Young, F. E., 599 Colusa Ave., Berkeley, Calif. (H)
 Young, W. M., 270 Whittier Ave., Tracy, Calif. (H-Hvy)
 Youngs, Claude L., Rt. 6, Box 2150, Antelope Rd., Sacramento, Calif. (H-Hvy)

(c) SAN DIEGO CHAPTER

President—Walter H. Barber, 7309 El Cajon Ave., La Mesa, Calif.
Manager—M. A. Mathias, 435-6 Spreckels Bldg., San Diego 1, Calif.
Telephone: Franklin 1321

Anderson, L. C., Co., 3040 Hancock St., San Diego 10, Calif. (B)
 Barber, Walter H., 7309 El Cajon Ave., La Mesa, Calif. (Hvy)
 Butterfield, L. B., 2035 Main St., San Diego 13, Calif. (Hvy)
 Carroll & Foster, 2285 Newton Ave., San Diego 13, Calif. (H-Hvy)
 Chambers Steel Co., 2077 Kurtz St., San Diego 1, Calif. (B-Hvy)
 Cory & Longworth, Inc., 1975 5th Ave., San Diego 1, Calif. (B)
 Curry, I. C., 1701 B St., San Diego 2, Calif. (B)
 Daley Corp., Lock Box 67, N. Park Sta., San Diego 4, Calif. (H-Hvy)
 Dennis, V. R., Constr. Co., P. O. Box F, Hillcrest Sta., San Diego 3, Calif. (H-Hvy)
 Ford, E. Paul, 5050 Market St., San Diego 5, Calif. (H-Hvy)
 Golden, M. H., Constr. Co., 3485 Neell St., San Diego 1, Calif. (B-Hvy)
 Griffith Co., P. O. Box G, Hillcrest Sta., San Diego 3, Calif. (B-H-Hvy)
 Grove, Cecil B., 3216 Island Ave., San Diego 2, Calif. (H)

CALIFORNIA—Continued

Hansen, John, 1489 Island Ave., San Diego 2, Calif. (Hvy)
 Harris, Sim J., Co., 1691 Hancock, San Diego 1, Calif. (H-Hvy)
 Hazard, R. E., Constr. Co., P. O. Box 1951, San Diego 12, Calif. (H-Hvy)
 Hortie, R. J., 2627 Boston Ave., San Diego 13, Calif. (B)
 Kier, W. E., Constr. Co., 461 Spreckels Bldg., San Diego 1, Calif. (B-H-Hvy)
 Larsen, B. O., 1340 E St., San Diego 2, Calif. (B-Hvy)
 Larsen, C. A., 2057 Kurtz St., San Diego 1, Calif. (B)
 National Steel & Shipbldg. Corp., Harbor Dr. at 28th St., San Diego 13, Calif. (B-Hvy)
 Nelson, W. F., Co., 1249 S. 32d St., San Diego 13, Calif. (Hvy)
 Nielsen Constr. Co., P. O. Box 1577, Old San Diego Sta., San Diego 10, Calif. (B-Hvy)
 Riha Constr. Co., 4859 El Cajon Blvd., San Diego 15, Calif. (B)
 Standard Iron Works, Harbor Dr. at Beardsley St., San Diego 13, Calif. (Hvy)
 Stroud-Seabrook, P. O. Box 787, Chula Vista, Calif. (Hvy)
 Tavares Constr. Co., P. O. Box 569, La Jolla, Calif. (B-Hvy)
 Travelodge Corp., The, 3045 Moore St., San Diego 10, Calif. (B)
 Trepte Constr. Co., 2001 Kettner Blvd., San Diego 1, Calif. (B-Hvy)
 Young, F. E., Constr. Co., 2141 Main St., San Diego 13, Calif. (B-Hvy)

(d) SOUTHERN CALIFORNIA
CHAPTER

President—Ben P. Griffith, Griffith Co., 1060 S. Broadway, Los Angeles 13, Calif.
Manager—W. D. Shaw, 707 Architects Bldg., 816 W. 5th St., Los Angeles 17, Calif.
Telephone: Madison 1381

ABC Constr. Co., Inc., 14346 S. Lakewood Blvd., Paramount, Calif. (Hvy)
 Adair, H. B., Constr. Co., 18037 S. Broadway, P. O. Box 249, Gardena, Calif. (H-Hvy)
 Akmadzich, P. J., Box 8, Sunland, Calif. (H)
 Al-Co Co., 5423 Flemish Village Lane, Los Angeles 27, Calif. (Hvy)
 Aldous & Co., 2006 S. La Cienega Blvd., Los Angeles 34, Calif. (B-Hvy)
 Alliance Constr. Co., 308 Monterey Rd., South Pasadena, Calif. (B)
 American Asphalt Paving Co., 1010 S. Shamrock Ave., Monrovia, Calif. (B-Hvy)
 American Pipe & Constr. Co., Box 3428, Terminal Annex, Los Angeles 54, Calif. (Hvy)
 Ampco Constr. Co., 1728 S. Greenwood Ave., Montebello, Calif. (H-Hvy)
 Anderson Co., P. O. Box 1190, Visalia, Calif. (H)
 Anso Constr. Co., Inc., 2725 Atlantic Ave., Long Beach 6, Calif. (B-H-Hvy)
 Artukovich Bros., Inc., 16200 S. Atlantic Ave., Paramount, Calif. (H-Hvy)

Artukovich, P. & J., Inc., 13305 S. San Pedro St., Los Angeles 61, Calif. (H-Hvy)
 Asphalt Paving Materials Co., 2120 Colorado Blvd., Rm. 2, Los Angeles 41, Calif. (H)
 Atkinson, Guy F., Co., P. O. Box 259, Long Beach 1, Calif. (B-H-Hvy)
 Baer, Paul M., & Son, 2400 Hyperion Ave., Los Angeles 27, Calif. (B)
 Bagnall, C. B., 1505 Border Ave., Torrance, Calif. (B-H-Hvy)
 Baker, Jack W., 21229 De La Osa, Woodland Hills, Calif. (B-H-Hvy)
 Baker-Mitchell-Thwing Co., P. O. Box 2098, San Bernardino, Calif. (Hvy)
 Ball, Stanley, 1101 Westminster Ave., Alhambra, Calif. (H)
 Barnes, Jas. I., Constr. Co., 504 S. Lafayette Park Pl., Los Angeles 5, Calif. (B)
 Barnes, W. M., Co., 727 W. 7th St., Rm. 355, Los Angeles 17, Calif. (B-Hvy)
 Barrett & Hulp, 234 W. 37th Pl., Los Angeles 7, Calif. (B-H-Hvy)
 Baruch Corp., 5655 Wilshire at Hauser, Los Angeles 36, Calif. (B-Hvy)
 Basich Bros. Constr. Co., 1148 N. San Gabriel Blvd., Garvey, Calif. (H-Hvy)
 Bechtel Corp., 3780 Wilshire Blvd., Los Angeles 5, Calif. (B-H-Hvy)
 Bell, Ralph A., 901 S. Primrose Ave., Monrovia, Calif. (H-Hvy)
 Bent Constr. Co., 5359 Valley Blvd., Los Angeles 32, Calif. (Hvy)
 Beyer & Abrahamson, 315 W. 9th St., Los Angeles 15, Calif. (B)
 Blaw-Knox Constr. Co., P. O. Box 778, Pittsburgh 30, Pa. (B-Hvy)
 Bock Co., 1120 N. Las Palmas Ave., Los Angeles 38, Calif. (H-Hvy)
 Bong, Clifford C., & Co., 123 N. 3d Ave., Arcadia, Calif. (H-Hvy)
 Braun, C. F., & Co., 1000 S. Fremont Ave., Alhambra, Calif. (Hvy)
 Bressi & Bevanda Constrs., Inc., P. O. Box 439, North Hollywood, Calif. (H-Hvy)
 Brock, M. J., & Sons, Inc., 2894 Rowena Ave., Los Angeles 26, Calif. (B-Hvy)
 Brown, Chas. T., Co., 1955 6th St., San Fernando, Calif. (H-Hvy)
 Burke & Reynolds Constr. Co., 1227 N. Avalon, P. O. Box 635, Wilmington, Calif. (B)
 Butterfield, C. R., Co., 1401 N. Gaffey St., San Pedro, Calif. (H-Hvy)
 Buttress & McClellan, Inc., 1900 Beverly Blvd., Los Angeles 4, Calif. (B-H-Hvy)
 California Steel & Constr. Co., 3833 E. Medford St., Los Angeles, Calif. (B)
 Callahan Constr. Co., 1804 Monterey Rd., South Pasadena, Calif. (B-H-Hvy)
 Camillo Bros. Dump Truck Co., 424 Fernando Ct., Glendale 4, Calif. (H-Hvy)
 Carter, Geo. W., Co., 1721 W. Olympic Blvd., Los Angeles 15, Calif. (B)
 Case-Connolly Co., 2051 Del Amo Blvd., Compton, Calif. (H-Hvy)
 Case, V. D., Co., P. O. Box 515, Wilmington, Calif. (B-Hvy)
 Casey & Case Foundation Co., 5972 Atlantic Blvd., Maywood, Calif. (B-Hvy)
 Concrete Conduit Co., 899 S. La Cadena Ave., P. O. Box 31, Colton, Calif. (Hvy)

Contracting Engrs. Co., The, 2310½ W. Vernon Ave., Los Angeles 43, Calif. (B-H-Hvy)
 Cook, S. J., & Son, 4508 W. Jefferson Blvd., Los Angeles 16, Calif. (B-H-Hvy)
 Covina Constr. Co., P. O. Box 385, Covina, Calif. (H)
 Cox Bros. Constr. Co., P. O. Drawer C, Stanton, Calif. (H-Hvy)
 Crow, L. A. & R. S., 2226 N. Rosemead Blvd., El Monte, Calif. (H-Hvy)
 Crowell, Wm. C., Co., 170 E. California St., Pasadena 5, Calif. (B)
 Cummins, J. F., 245 E. Olive Ave., Burbank, Calif. (B)
 Curlett Constr. Co., 820 W. Esther St., Long Beach 6, Calif. (B)
 Daum, R. J., Constr. Co., 6803 West Blvd., Inglewood, Calif. (B)
 Davies, John R., & Son, 3312 Long Beach Ave., Los Angeles 58, Calif. (Hvy)
 Davies, Keusder & Brown, 4915 Exposition Blvd., Los Angeles 16, Calif. (B)
 Deane, B. C., & Gunther & Shirley Co., 5536 Sepulveda Blvd., Van Nuys, Calif. (B)
 Denni Corp., 736 N. Avalon Blvd., Wilmington, Calif. (H-Hvy)
 Dimmitt & Taylor, 128 W. Pomona Ave., Monrovia, Calif. (H-Hvy)
 Dixon, L. E., Co., 409 S. California St., San Gabriel, Calif. (B-H-Hvy)
 Doty Bros., 9936 E. Ramona Ave., Bellflower, Calif. (Hvy)
 Driver, C. W., Inc., 3416½ W. 1st St., Los Angeles 4, Calif. (B)
 Dunn, Louis C., Inc., 3101 Wilshire Blvd., Los Angeles 5, Calif. (B-Hvy)
 Dutro, Chas. A., Asso., 1321 W. 17th St., Long Beach, Calif. (B-H-Hvy)
 Early, Fred J., Jr. Co., Inc., P. O. Box 114, Torrance, Calif. (B)
 Ehrhart & Arthur, Inc., 417 S. Hill St., Los Angeles 13, Calif. (Hvy)
 Eichelberger & Harwood, Inc., 240 26 St., Santa Monica, Calif. (B)
 Ellis, G. W., Constr. Co., 8240 Lankershim Blvd., North Hollywood, Calif. (H)
 El Rio Rock Co., P. O. Box 548, Ventura, Calif. (H)
 Emsco Concrete Cutting Co. of Los Angeles, 2751 E. 11 St., Los Angeles 23, Calif. (Hvy)
 Emtman, Eric W., 3825 Vine St., Riverside, Calif. (B-Hvy)
 Engineers, Ltd., 605 W. Olympic Blvd., Los Angeles 14, Calif. (B)
 Engineers Ltd. Pipeline Co., 225 Bush St., San Francisco 4, Calif. (Hvy)
 Erwin, R. A., P. O. Box 231, Colton, Calif. (B-H-Hvy)
 Escherich Bros., Inc., 645 S. Ave. 21, Los Angeles 31, Calif. (B)
 Fadel, Norman I., Box 206, North Hollywood, Calif. (H-Hvy)
 Famularo, A. H., P. O. Box 239, Santa Ana, Calif. (B-H-Hvy)
 Ferry, Peter L., & Son, 5201 N. San Fernando Rd., Glendale 3, Calif. (Hvy)
 Finan Constr. Co., 124 W. 4th St., Los Angeles 13, Calif. (B)
 Fisher, Claude, Co., Ltd., 2455 E. 55th St., Los Angeles 58, Calif. (H)

(Symbols following names indicate type of construction performed by company; B—Building; H—Highway; Hvy—Heavy; RR—Railroad.)

CALIFORNIA—Continued

- Fitzgerald Engr. & Constr. Co., 625 Rowan Bldg., Los Angeles 13, Calif. (B-H-Hvy)
 Fluor Corp., Ltd., The, 2500 S. Atlantic Blvd., Los Angeles 22, Calif. (B-Hvy)
 Foster & McHarg, 3610 8th St., P. O. Box 244, Riverside, Calif. (H-Hvy)
 Gallinger Constr. Co., P. O. Box 128, Gardena, Calif. (B)
 Goode & Schroeder, Inc., 3033 Treadwell St., Los Angeles 41, Calif. (H-Hvy)
 Goral & Meyer, 5190 W. Washington Blvd., Los Angeles 16, Calif. (B-Hvy)
 Gould & Cross, Box 427, Wilmington, Calif. (H)
 Grafe-Callahan Constr. Co. & Gunther & Shirley, 714 W. Olympic Blvd., Los Angeles 15, Calif. (H-Hvy)
 Grandy, E. F., P. O. Box 401, Laguna Beach, Calif. (B)
 Granite Constr. Co., P. O. Box 900, Watsonville, Calif. (B-H-Hvy)
 Green, Edw. Co., 3001 Coolidge Ave., Los Angeles 26, Calif. (H-Hvy)
 Gridley Constr. Co., P. O. Box 649, Oxnard, Calif. (B-Hvy)
 Griffith Co., 1060 S. Broadway, Los Angeles 15, Calif. (B-H-Hvy)
 Gunn Constr. Co., 2903 Beverly Blvd., Los Angeles 4, Calif. (B)
 Haas, E. T. Co., P. O. Box 6969, East Los Angeles 22, Calif. (Hvy)
 Haddock Engrs., Ltd., 1616 S. Greenwood Ave., P. O. Box 390, Montebello, Calif. (B-H-Hvy)
 Haddock, J. E. Ltd., P. O. Box 188E, Pasadena 8, Calif. (H-Hvy)
 Hahn-St. John, 219 N. Hawthorne Blvd., Hawthorne, Calif. (B)
 Hall, Guy E., P. O. Box 1723, Bakersfield, Calif. (B-H-Hvy)
 Hall, W. E., Constr. Co., Box 470, Alhambra, Calif. (H-Hvy)
 Halforan & Gill, 2931 Pierce Rd., Bakersfield, Calif. (H)
 Halper Constr. Corp., 739 N. Highland Ave., Los Angeles 38, Calif. (B)
 Halvorson Constr., Box 307, Goleta, Calif. (B-H-Hvy)
 Harvey Constr. Co., 2065 N. Peck Rd., El Monte, Calif. (H)
 Harvey & Rose, 11 N. 5th Ave., Arcadia, Calif. (B-H-Hvy)
 Hasler, M. H., Constr. Co., P. O. Box 387, Santa Ana, Calif. (H-Hvy)
 Hayes, Hal B., Constr. Co., 117 E. Colorado, Pasadena, Calif. (B)
 Heisler & Woods, 229 S. Hoyt Ave., El Monte, Calif. (H-Hvy)
 Hermann Co., 417 S. Hill St., Rm. 423, Los Angeles 13, Calif. (B)
 Herz, Geo., & Co., P. O. Box 191, San Bernardino, Calif. (B-H)
 Herz Paving Co., 234 S. E. St., San Bernardino, Calif. (B-H)
 Hoagland-Findlay Engr. Co., 3254 Cherry Ave., Long Beach 7, Calif. (B-Hvy)
 Hogan Co., The, 3400 Arlington Ave., Riverside, Calif. (B-H-Hvy)
 Homes of Tomorrow, Inc., 3211 Newton St., Torrance, Calif. (B)
 Hood Constr. Corp., 3002 E. Century Blvd., Lynwood, Calif. (Hvy)
 Hudson Constr. Co., 1277 W. 24 St., Los Angeles 7, Calif. (B)
 Industrial Engrs., Inc., 817 E. 59th St., Los Angeles 1, Calif. (B-Hvy)
 Irish, E. A., 2944 Gleneden St., Los Angeles 26, Calif. (Hvy)
 Izz, Michael, 1033 Arden Dr., Temple City, Calif. (B-H-Hvy)
 J. & B. Constr. Co., 5572 Valley Blvd., Los Angeles 32, Calif. (B)
 Jamison, E. J., 115 W. 17 St., Los Angeles 15, Calif. (B-Hvy)
 Johnson, J. Walter, 5205 Hollywood Blvd., Los Angeles 27, Calif. (B-Hvy)
 Johnson Western Constrs., P. O. Box 6, San Pedro, Calif. (B-Hvy)
 Jones Bros., 147 San Vicente Blvd., Beverly Hills, Calif. (B)
 Kaime, R. W., P. O. Box 1268, Santa Barbara, Calif. (Hvy)
 Kaiser, E. A. Co., Inc., 8825 Olympic Blvd., Beverly Hills, Calif. (B)
 Kaiser Engrs., Div. of Kaiser Inds., Inc., 1924 Broadway, Oakland 12, Calif. (B-H-Hvy)
 Kaucher, Walter, 9880 W. Pico Blvd., Los Angeles 35, Calif. (B-H-Hvy)
 Kemp Bros., 8750 Mettler St., Los Angeles 3, Calif. (B-Hvy)
 Kemper Constr. Co., 3701 Overland Ave., Los Angeles 34, Calif. (H-Hvy)
 Kerns, G. E., 5574 Atlantic Ave., Long Beach 5, Calif. (H-Hvy)
 Kier, W. E., Constr. Co., 2323 E. Rosecrans, P. O. Box 147, El Segundo, Calif. (B-Hvy)
 Kiewit, Peter, Sons' Co., 345 Kieways Ave., Arcadia, Calif. (B-H-Hvy)
 Klarquist, John A., 618 S. Western Ave., Los Angeles 5, Calif. (B)
 Kleinsmid Constr. Co., P. O. Box 971, Bakersfield, Calif. (H)
 Koller, Stanley H., Constr., 1694 Pomona St., Crockett, Calif. (Hvy)
 Kuhns, J. A., Constr. Co., 1223 E. South St., Long Beach 5, Calif. (B)
 L. A. Paving Co., 3700 S. Soto St., Los Angeles 11, Calif. (H)
 Lane, Richard M., 4719 Exposition Blvd., Los Angeles 16, Calif. (B)
 Lee & Neal, 236 State St., Santa Barbara, Calif. (Hvy)
 Liberty Bldg. Co., 2209 Michigan Ave., Santa Monica, Calif. (B)
 Lindgren & Swinerton, Inc., 605 W. Olympic Blvd., Los Angeles 15, Calif. (B-H-Hvy)
 Lorber, Melvin, 7458 Beverly Blvd., Los Angeles 36, Calif. (B)
 Lyles, W. M. Co., P. O. Box 495, Avenal, Calif. (Hvy)
 M. J. B. Constr. Co., 322 Elks Bldg., Stockton 1, Calif. (H)
 MacCloskey, Chas., Co., 808 S. Vermont Ave., Los Angeles, Calif. (H-Hvy)
 Macco Corp., 14409 S. Paramount Blvd., Paramount, Calif. (H-Hvy)
 MacDonald, Young & Nelson, Inc., 351 California St., San Francisco 4, Calif. (B-H-Hvy)
 MacIsaac, Menke & Roach, Inc., 3440 E. 14th St., Los Angeles 23, Calif. (B-Hvy)
 Madonna Constr. Co., P. O. Box 910, San Luis Obispo, Calif. (H-Hvy)
 Maguire, J. C., & Co., Architects Bldg., Los Angeles 17, Calif. (Hvy)
 Martin, Guy T., & Co., 642 E. Olive St., P. O. Box 432, Gardena, Calif. (B-Hvy)
 Mathews Constr. Co., 1100 Westminster, Alhambra, Calif. (H-Hvy)
 McClain Constr. Co., Inc., 570 N. Prairie Ave., Hawthorne, Calif. (H-Hvy)
 McDowell Constr., Victorville, Calif. (B)
 McElvany, J. L., P. O. Box 261, El Centro, Calif. (H-Hvy)
 McKee, Arthur, & Co., 2300 Chester Ave., Cleveland 1, Ohio (B)
 McKee, Robt. E., Gen. Contr., Inc., P. O. Box 350, Glendale 26, Calif. (B-H-Hvy)
 McKittrick, E. S., Co., Inc., P. O. Box 470, Huntington Park, Calif. (B-Hvy)
 McNeil, J. A., Co., 714 W. Olympic Blvd., Los Angeles 15, Calif. (B)
 Meadow Constr. Co., P. O. Box 1428, Bakersfield, Calif. (H-Hvy)
 Mecham, M. S., & Sons, 11125 Garfield Ave., South Gate, Calif. (H)
 Meredith, Trent, 407 S. B. St., Oxnard, Calif. (B-H-Hvy)
 Merrill, Ted F., & Sons, 911 E. Redondo Blvd., Inglewood, Calif. (B)
 Miller, Geo., Constr. Co., 3032 Bandini Blvd., Los Angeles 23, Calif. (Hvy)
 Miller & Miller, 5941 W. Venice Blvd., Los Angeles 34, Calif. (B-Hvy)
 Mitty Constrs., 4801 San Fernando Rd., Los Angeles 39, Calif. (H-Hvy)
 Modern Bldrs. Constr. Co., Inc., 2812 Long Beach Blvd., Long Beach 6, Calif. (B-H-Hvy)
 Montank & Son, 5142 Onacrest Dr., Los Angeles 43, Calif. (H)
 Montgomery, J. M., & Co., Inc., 900 S. Robertson Blvd., Los Angeles 35, Calif. (B-Hvy)
 Moran, Wm. J., Co., 1011 S. Fremont Ave., Alhambra, Calif. (B-H-Hvy)
 Morrison-Knudsen Co., Inc., 411 W. 5th St., Los Angeles 13, Calif. (B-H-Hvy)
 Myers Bros., 3407 San Fernando Rd., Los Angeles 65, Calif. (B-H-Hvy)
 Napp Constr. Co., Inc., 1201 N. Keystone St., Burbank, Calif. (H-Hvy)
 Newbery Elec. Corp., 1038 Venice Blvd., Los Angeles 15, Calif. (Hvy)
 Nicholas, K. B., P. O. Box 551, 720 N. Vine, Ontario, Calif. (B-H-Hvy)
 Nichols, Harvey A., 926 E. Slauson Ave., Los Angeles 11, Calif. (B)
 Nicholson, H. B., 117 E. Colorado St., Pasadena 1, Calif. (B-Hvy)
 Noble, R. J., Co., P. O. Box 620, Orange, Calif. (H)
 Normac, Inc., P. O. Box 470, Huntington Park, Calif. (B)
 Nottingham, M. C., Co., 123 N. Cloverly Ave., Temple City, Calif. (Hvy)
 Oberg Bros. Constr. Co., Box 640, Inglewood, Calif. (H-Hvy)
 Odell, L. W., 1265 Sierra Madre Blvd., San Marino 9, Calif. (B)
 Ofeco Constr. Co., Inc., 2650 Cherry Ave., Long Beach 6, Calif. (B-Hvy)
 Olerich, Walter F., 8116 W. 3d St., Los Angeles 48, Calif. (B-H-Hvy)
 Olson, F., 1937 W. Florence Ave., Los Angeles 44, Calif. (B)

CALIFORNIA—Continued

- Osborn Co., 3200 Edgecliff Lane, Pasadena 8, Calif. (H)
- Oswald Bros., 366 E. 58th St., Los Angeles 11, Calif. (H)
- Owl Truck & Constr. Co., 500 S. Alameda St., P. O. Box 509, Compton, Calif. (H-Hvy)
- Pacific Contr. Corp., P. O. Box 72, Newport Beach, Calif. (B-H-Hvy)
- Pacific Crane & Rigging, Inc., 6800 S. Alameda, Los Angeles 1, Calif. (H-Hvy)
- Pacific Pipeline Constr. Co., 1632 S. Greenwood Ave., Montebello, Calif. (Hvy)
- Page Corp. & T. M. Page, 145 W. Duarte Rd., Monrovia, Calif. (H-Hvy)
- Parkhill-Wade, Box 6877, E. Los Angeles Br., Los Angeles 22, Calif. (B-Hvy)
- Parsons, Ralph M., Co., The, 617 S. Olive St., Los Angeles 14, Calif. (B-H-Hvy)
- Pavement Planing Co., 4338 Sunset Blvd., Los Angeles, Calif. (H)
- Payne, G. J., Co., Inc., 6810 Gresham Blvd., Los Angeles 43, Calif. (H-Hvy)
- Pecel, B., & Sons, 11751 Vose St., North Hollywood, Calif. (Hvy)
- Peck, C. L., 407 Architects Bldg., 816 W. 5th St., Los Angeles 17, Calif. (B)
- Peterson, Geo. W., 6170½ Santa Monica Blvd., Los Angeles 38, Calif. (B-H)
- Phoenix Constr. Co., Inc., P. O. Box 906, Bakersfield, Calif. (H)
- Pickard Constr. Co., 2190 E. Willow St., Long Beach 6, Calif. (H-Hvy)
- Pipe Line Constrs., P. O. Box 97, Bakersfield, Calif. (H)
- Plunkett, North H., & Co., 2909 Junipero Ave., Long Beach, Calif. (H-Hvy)
- Pollock, Geo., Co., Box 903, Sacramento 5, Calif. (B-H-Hvy)
- Potts, Fred E., Co., 2516 12th Ave., Los Angeles 18, Calif. (B-H-Hvy)
- Pozzo Constr. Co., Ltd., 2403 Riverside Dr., Los Angeles 39, Calif. (B)
- Pree, Vido S., & Glenn Graham, 2901 Worthen Ave., Los Angeles 39, Calif. (H)
- Pugh Constr. Corp., 1525 N. Gaffey St., San Pedro, Calif. (B-H-Hvy)
- Quinn & Conant, 8474 W. 3d St., Los Angeles 36, Calif. (B)
- Radich & Fergusson, Inc., 3000 Empire Ave., Burbank, Calif. (H-Hvy)
- Radkovich, Wm., Co., 4920 E. Washington, Los Angeles 22, Calif. (H-Hvy)
- Rados, Steve P., 2975 San Fernando Rd., Los Angeles 41, Calif. (H-Hvy)
- Ramljak, M., 3001 Worthen Ave., Los Angeles 26, Calif. (Hvy)
- Rand Constr. Co., P. O. Box 1339, Bakersfield, Calif. (H-Hvy)
- Remmet Constr. Co., Box 878, Palo Alto, Calif. (B)
- Rexroth & Rexroth, P. O. Box 1138, Bakersfield, Calif. (H)
- Reynolds, Roland T., Rt. 4, 8751 Sunkist, Anaheim, Calif. (H-Hvy)
- Rhoades Shofner Constr. Co., Inc., 3869 Medford St., Los Angeles 33, Calif. (H-Hvy)
- Robertson, Alex. Co., 14433 S. Paramount Blvd., Paramount, Calif. (Hvy)
- Robertson, W. E., 4015 W. Jefferson Blvd., Los Angeles 16, Calif. (B-H)
- Rounds, Chas. J., 4529 Alger St., Los Angeles 26, Calif. (H)
- Saliba, N. M., Co., P. O. Box 1673, Wilshire-LaBrea Sta., Los Angeles 36, Calif. (B-H-Hvy)
- Santa Barbara Crane Service, P. O. Box 92, Santa Barbara, Calif. (Hvy)
- Schmidt Bros., 1389 Gladys Ave., Long Beach 4, Calif. (H-Hvy)
- Schroeder & Co., Inc., 8140 Tujunga, Box 308, Sun Valley, Calif. (H-Hvy)
- Sharp & Fellows Contr. Co., 533 Central Bldg., Los Angeles 14, Calif. (B-H-Hvy)
- Shaw, Donald F., 1901 Blake Ave., Los Angeles 26, Calif. (B)
- Shea Co., The, 2801 W. Mission Rd., Alhambra, Calif. (Hvy)
- Shelby, Peter P., 4414 W. Jefferson Blvd., Los Angeles 16, Calif. (B)
- Silva & Hill Constr. Co., 5575 Valley Blvd., Los Angeles 32, Calif. (H)
- Simpson, Wm. A., Constr. Co., The, 816 W. 5th St., Los Angeles 17, Calif. (B)
- Smale & Robinson, Inc., 1033 Avalon Blvd., Wilmington, Calif. (B-Hvy)
- Smith, Ben F. Co., 333 S. Rosemead Blvd., Pasadena 8, Calif. (B-Hvy)
- Smith, H. C., Co., 718 E. 16th St., Los Angeles 21, Calif. (B-H-Hvy)
- Smith, W. C., of California, Inc., 2119 Pacific Ave., Long Beach 2, Calif. (B)
- Southwest Paving Co., P. O. Box 338, Sun Valley, Calif. (H)
- Southwestern Engr. Co., 4800 Santa Fe Ave., Los Angeles 58, Calif. (B-Hvy)
- Sparks, C. O., & Mundo Engr. Co., Inc., 2727 E. Washington Blvd., Los Angeles 23, Calif. (H-Hvy)
- Speer, Paul W. Inc., 4201 Sunset Blvd., Los Angeles 29, Calif. (B)
- Spencer, Paul, 151 N. Acacia, San Dimas, Calif. (B)
- Spicer Co., P. O. Box 8383, W. Adams Sta., Los Angeles 16, Calif. (H-Hvy)
- Standard Dredg. Corp., 800 Central Bldg., Los Angeles 14, Calif. (Hvy)
- Stanton-Reed Co., 816 W. 5th St., Los Angeles 17, Calif. (B)
- Starrett Brothers and Eken, Incorporated, 6120 W. 3d St., Los Angeles 36, Calif. (B-Hvy)
- State Constr. Co., 3248 Long Beach Ave., Los Angeles 11, Calif. (Hvy)
- Steed Bros., Box 350, Alhambra, Calif. (B)
- Stolte, Inc., 8451 San Leandro St., Oakland 3, Calif. (B-H-Hvy)
- Stone & Webster Engineering Corp., Edison Bldg., Los Angeles 17, Calif. (Hvy)
- Subgrade Engr. Corp., P. O. Box 631, Bell, Calif. (H-Hvy)
- Sully-Miller Contr. Co., 1500 W. 7th St., Long Beach 6, Calif. (H)
- Summerbell Roof Structures, 825 E. 29th St., Los Angeles 11, Calif. (B-H)
- Swigart, John J., Co., P. O. Box 155, Torrance, Calif. (B-H)
- T-S Constr. Engrs., Inc., 600 St. Paul Ave., Los Angeles 17, Calif. (B)
- Taylor & Kretz, 3590 Buchanan St., P. O. Box 16, Arlington, Calif. (B)
- Teichert, A., & Son, Inc., 1846 37th St., Sacramento 5, Calif. (H-Hvy-RR)
- Thompson, E. S., 832 W. 5th St., Los Angeles 17, Calif. (B)
- Thompson, J. A., & Son, P. O. Box 518, Inglewood, Calif. (H-Hvy)
- Tomei Constr. Co., 4737 Orion St., Van Nuys, Calif. (H-Hvy)
- Triangle Rock & Gravel Co., P. O. Box 2098, Uptown Sta., San Bernardino, Calif. (H-Hvy)
- Trousdale Constr. Co., 650 N. Sepulveda Blvd., Los Angeles 24, Calif. (B)
- Tuttle, C. B., Co., 268 Belmont Ave., Long Beach 3, Calif. (Hvy)
- Twait, Ford J., Co., 449 S. Beaudry St., Los Angeles 17, Calif. (B-H-Hvy)
- United Concrete Pipe Corp., Box 425, Baldwin Park, Calif. (H-Hvy)
- United Construction Co., Pier E, Terminal Island, P. O. Box 1887, Long Beach, Calif. (B-Hvy)
- United States Constr. Corp., 111 E. Chartres St., Anaheim, Calif. (B-H)
- Utah Construction Co., The, 1 Montgomery St., San Francisco 4, Calif. (B-H-Hvy)
- Utility Constr. Co., 9830 Atlantic Blvd., South Gate, Calif. (Hvy)
- Valley Paving & Constr. Co., Inc., P. O. Box 6, Pismo Beach, Calif. (H-Hvy)
- Van Valkenburgh, N. P., 8609 San Vincente Ave., South Gate, Calif. (Hvy)
- Vernon Paving Co., Inc., 3200 E. Vernon Ave., Los Angeles 58, Calif. (H)
- Vinnell Co., Inc., 1145 Westminster Ave., Alhambra, Calif. (B-H-Hvy)
- Vlacich, Robt., 2901 Worthen Ave., Los Angeles 39, Calif. (H-Hvy)
- Waale, Camplan Co. of Los Angeles, 4860 Valley Blvd., Los Angeles 32, Calif. (B-H-Hvy)
- Walker, P. J., Co., 3900 Whiteside Ave., Los Angeles 63, Calif. (B-H-Hvy)
- Walsh Construction Company, 785 Market St., San Francisco 3, Calif. (B-H-Hvy)
- Walsh, T. H., & Argo Engr. Co., 4017 Medford St., Los Angeles 33, Calif. (H-Hvy)
- Warren-Southwest, Inc., P. O. Box 419, 20900 S. Normandie Ave., Torrance, Calif. (H-Hvy)
- Watson, R. A., Co., 5528 Vineland Ave., North Hollywood, Calif. (H-Hvy)
- Webb, Del E., Constr. Co., 5101 San Fernando Rd., W., Los Angeles 39, Calif. (B-Hvy)
- Webb & White, 7220½ Melrose Ave., Los Angeles 46, Calif. (H-Hvy)
- Weston Corp., 8638 W. 3d St., Los Angeles 48, Calif. (B)
- Western Motor Transfer, Inc., 118 State St., Santa Barbara, Calif. (H-Hvy)
- Western U. S. Constr. Co., 601 6th St., San Fernando, Calif. (B)
- Wilcox, Jack, P. O. Box 448, Huntington Park, Calif. (H)
- Willard-Brent Co., 254 E. 27th St., Los Angeles 11, Calif. (B)
- Willis, C. G., & Sons, Inc., 2119 E. 25th St., Los Angeles 11, Calif. (H-Hvy)
- Willson, Jack, 7111 Rio Flora Pl., Downey, Calif. (B-Hvy)

(Symbols following names indicate type of construction performed by company; B—Building; H—Highway; Hvy—Heavy; RR—Railroad.)

CALIFORNIA—Continued

Winston Bros. Company, 1532 S. California Ave., Monrovia, Calif. (H-Hvy)
 Wohl-Calhoun Co., 845 N. Highland Ave., Los Angeles 38, Calif. (B)
 Wonderly Constr. Co., 2694 Lime Ave., Long Beach 6, Calif. (H-Hvy)
 Wood, Clyde W., & Sons, Inc., 6900 Tujunga Ave., P. O. Box 620, North Hollywood, Calif. (B-H-Hvy)
 Young, J. E., Pipeline Contr., Inc., 931 E. Rosecrans Ave., Los Angeles 2, Calif. (Hvy)

5. COLORADO

(a) COLORADO BUILDING CHAPTER

President—James R. Howell, Jas. R. Howell & Co., 1030 W. 6th Ave., Denver, Colo.
Secretary-Manager—William S. Hibberd, 1421 Court Pl., Denver, Colo. Telephone: Alpine 6604
 Bate, Thos., & Sons Co., 2311 10th St., Denver, Colo. (B)
 Bickhard Constr. Co., 3940 W. 35th Ave., Denver, Colo. (B)
 Brown-Schrepperman & Co., 240 Washington St., Denver 9, Colo. (B-H)
 Denver Bldrs., Inc., 1420 Ulster St., Denver, Colo. (B)
 Elder Constr. Co., 175 Vallejo St., Denver 9, Colo. (B)
 Empire Constr. Co., 3159 S. Broadway, Englewood, Colo. (B)
 Folsom Constr. Co., 40 W. Louisiana St., Denver 10, Colo. (B)
 Gaasland Co., Inc., S. York & Jewell, Denver, Colo. (B)
 Hammond, H. W., 2600 Front View Crescent, Denver 11, Colo. (B)
 Hedgecock, Wendell T., 1025 Galapago St., Denver 4, Colo. (B)
 Hobbs, E. L., Constr. Co., 520 Acoma St., Denver 4, Colo. (B)
 Howell, Jas. R., & Co., 1030 W. 6th Ave., Denver, Colo. (B)
 Industrial Constrs., 3860 Galapago St., Denver 16, Colo. (B)
 J. & K. Constr. Co., 1378 Dexter St., Denver 7, Colo. (B)
 Johns Engr. Co., 375 Kalamath St., Denver 9, Colo. (B)
 Jones, E. B. & A. A., 682 Wyandotte St., Denver 4, Colo. (B)
 Jones & Hezlep, 1 Galapago St., Denver 9, Colo. (B)
 Kenney, Frank M., Box 898, Denver, Colo. (B)
 Kenney, Jas. B., 3233 Osage St., Denver 11, Colo. (B)
 Kiewit, Peter, Sons' Co., P. O. Box 4149, S. Denver Sta., Denver 9, Colo. (B)
 Kirchhof, F. J., Constr. Co., 700 Lawrence St., Denver 4, Colo. (B)
 Marye-Northwestern Co., 1300 Cherokee, Denver, Colo. (B)
 Mayer-Osborn Co., 1717 E. Colfax, Denver, Colo. (B)

Mellwin Constr. Co., The, 35 S. Fox St., Denver 9, Colo. (B)
 Morris Constr. Co., 330 W. Asbury Ave., Denver, Colo. (B)
 Musick-Meyer Constr. Co., P. O. Box 28, Grand Junction, Colo. (B)
 Nielsen, N. R., & Sons, 632 Detroit St., Denver 6, Colo. (B)
 Olson Constr. Co., 535 Railway Exch. Bldg., Denver, Colo. (B)
 Olson & Hart, 323 Santa Fe Dr., Denver 9, Colo. (B)
 Perlmutter, Abe, Constr. Co., Inc., 401 Vallejo St., Denver 9, Colo. (B)
 Petry, N. G., Constr. Co., 7th & Mariposa, Denver, Colo. (B)
 Porter, Geo. S., 1165 Grant St., Apt. 101, Denver, Colo. (B)
 Rogers, Platt, Inc., P. O. Box 2068, Denver, Colo. (B)
 Short, Harry E., Tile Co., 1132 Speer Blvd., Denver, Colo. (B)
 Swinerton & Walberg Co., 2040 S. Navajo, S. Denver Sta., Denver, Colo. (B)
 Tamminga, John S., Tramway Bldg., Denver 2, Colo. (B)
 Udesen, Robt., 3775 E. Alameda, Denver, Colo. (B)
 Utah Construction Co., The, Rocky Mountain Arsenal, Denver 2, Colo. (B-H-Hvy-RR)

(b) COLORADO CONTRACTORS ASSOCIATION, INC.

President—Walter Steinwald, Colorado Constrs., Inc., 725 W. 39th Ave., Denver 16, Colo.
Managing Director—Earle W. Devalon, 302 Flat Iron Bldg., Denver 2, Colo. Telephone: Acoma 3524
 Anderson, F. B., Inc., 939 J St., Los Banos, Calif. (Hvy)
 Arthur & Allen, 409 N. Grand Ave., P. O. Box 1432, Pueblo, Colo. (H-Hvy)
 Atchison, R. R., Co., The, 4214 S. Logan St., Englewood, Colo. (H)
 Baab Constr. Co., 828 19th St., Greeley, Colo. (H-Hvy)
 Berry, C. B., 764 Humboldt St., Denver 3, Colo. (H)
 Birchby & Nauman, Inc., 845 Navajo St., Denver 4, Colo. (H-Hvy)
 Blanchard Bros., Rt. 3, Box 234, Denver 16, Colo. (H)
 Brown Constr. Co., 17 Belle Aire Rd., Colorado Springs, Colo. (H)
 Burnett Constr. Co., 509 8th Ave., Durango, Colo. (H)
 Campsey, R. N., Constr. Co., 2238 Oneida St., Denver 7, Colo. (B-H)
 Choun Constr. Co., Inc., 980 Yates St., Denver 4, Colo. (Hvy)
 Colorado Constrs., Inc., 725 W. 39th Ave., Denver 16, Colo. (H)
 Condon-Cunningham Co., 4229 Lafayette Ave., Omaha 3, Nebr. (H-Hvy)
 Corn Constr. Co., 414 Canon St., Grand Junction, Colo. (Hvy)
 Crocker & Ellett, Inc., 1863 Wazee St., Denver 2, Colo. (Hvy)
 Engineers Ltd. Pipeline Co., 2040 S. Navajo St., P. O. Box 4279, S. Denver Sta., Denver 9, Colo. (Hvy)

Gardner Constr. Co., Box 360, Glenwood Springs, Colo. (H)
 Gordon Constr. Co., 1950 31st St., Denver 5, Colo. (H-Hvy)
 Haake, Floyd, 1111 Lovato Lane, Santa Fe, N. Mex. (H)
 Hanes, C. M., Constr. Co., 110 W. 13th Ave., Denver 4, Colo. (H-Hvy)
 Harrison Constr. Co., The, 1566 S. Bannock St., Denver 10, Colo. (H)
 Heckendorff, F. A., 231 S. Curtis, Littleton, Colo. (H)
 Hill, Carl V., 1844 13th Ave., Greeley, Colo. (H)
 Hinman Bros. Constr. Co., The, P. O. Box 2571, Denver 1, Colo. (H-Hvy)
 Honnen, Ed. H., P. O. Box 5188, Terminal Annex, Denver 17, Colo. (H)
 Horn's Crane Service, 2735 W. Bayaud, Denver 9, Colo. (H)
 Horner, A. S., Constr. Co., 118 S. Pecos St., Denver 9, Colo. (H-Hvy)
 Horner & Switzer, 118 S. Pecos St., Denver 9, Colo. (H-Hvy)
 Hubner, C. L., Co., 4000 York St., Denver 5, Colo. (H)
 Hunt Constr. Co., Steamboat Springs, Colo. (H)
 Hutcheson Constr. Co., Inc., 4101 E. Evans Ave., Denver 7, Colo. (H-Hvy)
 Inland Constr. Co., 414, Hynds Bldg., Box 197, Cheyenne, Wyo. (H-Hvy)
 Jacobs, M. C., Constr. Co., Luna, N. Mex. (H)
 Jones Constr. Co., 272 S. Santa Fe Dr., Denver 9, Colo. (Hvy)
 Kenney, Frank M., Box 898, Denver 1, Colo. (B)
 Kenney, Jas. B., Inc., 3233 Osage St., Denver 11, Colo. (B-H)
 Kiewit, Peter, Sons' Co., P. O. Box 4149, S. Denver Sta., Denver 9, Colo. (Hvy)
 Lawrence Constr. Co., 112 S. Elati St., Denver 9, Colo. (H)
 Leone, Domenic, Constr. Co., Inc., 818 Oak St., Trinidad, Colo. (H)
 Lindstrom & Williams, 730 W. 42d Ave., Denver 16, Colo. (H)
 Lively, Ed., Constr. Co., 510 N. Allen, Farmington, N. Mex. (H)
 Lowdermilk Bros., 1950 W. Dartmouth, P. O. Box 4150, S. Denver Sta., Denver 9, Colo. (H-Hvy)
 Macco Corp. & Puget Sound Bridge & Dredg. Co., 14409 S. Paramount Blvd., Paramount, Calif. (Hvy)
 Magoffin, S. S., Co., Englewood, Colo. (Hvy)
 Mann Constr. Co., 2700 S. Elati St., Englewood, Colo. (Hvy)
 Mitty, K. S., Constr. Co., 4801 San Fernando Rd., W., Los Angeles 39, Calif. (H-Hvy)
 Monaghan, J. H.-N. M., & Assoc. Cos., Rt. 1, Derby, Colo. (H-Hvy)
 Northwestern Engr. Co., P. O. Box 567, Denver 1, Colo. (H)
 Pettyjohn, F. S., Rt. 1, Alamosa, Colo. (H)
 Read Constr. Co., 706 W. 19th St., P. O. Box 357, Cheyenne, Wyo. (H-Hvy)
 Rippy, E. J., & Sons, Box 472, New Castle, Colo. (H)
 Rogers, Platt, Inc., P. O. Box 153, Pueblo, Colo. (H-Hvy)

COLORADO—Continued

Schmidt Constr. Co., P. O. Box 66, Grand Junction, Colo. (H)
 Sears, M. J., 509 15th St., Denver 2, Colo. (H)
 Selander, Edw., 1010 Pikeview, Lakewood, Colo. (H-Hvy)
 Shore, Henry, Co., P. O. Box 271, Littleton, Colo. (H)
 Smith, Luke E., 1221 12th St., Denver 4, Colo. (H-Hvy)
 Spillane Constr. Co., 1165 Pikeview, Lakewood, Colo. (H)
 Switzer & Hayes, Rt. 1, Box 499, Arvada, Colo. (H-Hvy)
 Tarlton, G. L., Constr. Co., 5505 Dale Ave., St. Louis 10, Mo. (Hvy)
 Van Winkle, W. F. & D. E., 1609 Ford St., Golden, Colo. (H)
 Western Constr. Co., 2464 S. 8th Ave., Greeley, Colo. (Hvy)
 Williams Constr. & Drilling Co., Box 967, Grand Junction, Colo. (H)
 Wunderlich Contracting Company, 206 Patterson Bldg., Omaha 2, Nebr. (H-Hvy)

6. CONNECTICUT**(a) CONNECTICUT STATE CHAPTER**

President—Edw. E. Bray, Edw. E. Bray Co., Inc., 362 River St., Bridgeport, Conn.

Executive Vice President—Charles F. Grisham, 152 Temple St., New Haven, Conn.

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Allaire, P., & Sons, Inc., 350 Riverside Ave., Bristol, Conn. (B)
 Ames Constr. Co., The, 15 Standish St., Hartford, Conn. (B)
 Anderson Fairbanks Constr. Co., 145 S. Marshall St., Hartford, Conn. (B)
 Associated Constr. Co., The, 1010 Wethersfield Ave., Hartford, Conn. (B)
 Barney, W. J., Corp., 101 Park Ave., New York 17, N. Y. (B)
 Bartlett-Brainard Co., 103 Woodbine St., Hartford 6, Conn. (B)
 Blakeslee, C. W., & Sons, Inc., 58 Waverly St., New Haven, Conn. (B-H-Hvy-RR)
 Bonvicini Bldg. Co., 1500 S. Main St., Torrington, Conn. (B)
 Brady, Geo. J., Co., Inc., 134 4th St., Hamden, Conn. (B)
 Bray, Edw. E., Co., Inc., 362 River St., Bridgeport, Conn. (B)
 Brooklawn Constr. Co., The, 254 Prospect Ave., Hartford, Conn. (B)
 Burghart, O. F., Inc., 871 Central Ave., Bridgeport 8, Conn. (B)
 Buzzi, Felix, & Son, 612 S. Main St., Torrington, Conn. (B)
 Carlson & Torell Co., The, 50 Dwight St., New Britain, Conn. (B)

Chapel Constr. Co., The, 100 Ashmun St., New Haven, Conn. (B)
 Cianci Constr. Co., 107 Brace Rd., West Hartford, Conn. (B)
 Dapont, A., Constr. Co., Inc., 1801 Thomas-ton Ave., Waterbury, Conn. (B)
 Dwight Bldg. Co., The, 152 Temple St., New Haven, Conn. (B)
 E. & F. Constr. Co., Inc., The, 94 Wells St., Bridgeport 6, Conn. (B-Hvy)
 Frouge Constr. Co., Inc., 74 Goodsell St., Bridgeport, Conn. (B)
 Fusco-Amatruda Co., The, 59 Amity Rd., New Haven, Conn. (B)
 Gellatly Constr. Co., The, 181 Sylvan Ave., P. O. Box 6024, Beardsley Sta., Bridgeport 6, Conn. (B)
 Giordano Constr. Co., 287 Main St., Branford, Conn. (B)
 Green & Odegard, 119 Ann St., Hartford, Conn. (B)
 Halprin, Jack A., Inc., 679 State St., New Haven, Conn. (B)
 Hubbell, S. W., Bldg. Co., The, 589 Knowl-ton St., Bridgeport, Conn. (B)
 Industrial Constr. Co., The, 721 Main St., Hartford 3, Conn. (B)
 Johnson, Richard, Co., 167 Washington St., Hartford 6, Conn. (B)
 Kelley-Wood Co., The, 76 Center St., New Haven, Conn. (B)
 Kelly, Jos. F., Co., The, 184 Front Ave., P. O. Box 206, West Haven, Conn. (B)
 Lines, H. Wales, Co., The, 134 State St., Meriden, Conn. (B)
 Maring, Harry, Jr., Inc., 536 Lindley St., Bridgeport, Conn. (B)
 Massacoe Bldrs, Inc., Simsbury, Conn. (B)
 Megin, W. J., Inc., 51 Elm St., Naugatuck, Conn. (B)
 Monaco Constr. Co., The, 104 Reservoir Ave., Bridgeport, Conn. (B)
 Moss, Edwin, & Son, Inc., 555 Grant St., Bridgeport, Conn. (B)
 Mott-Mohr Constr. Co., Inc., 15 Mead St., New Haven, Conn. (B)
 Mutual Constr. Co., Inc., 81 Read St., Bridgeport, Conn. (B)
 Packtor, Edw., Co., 462 Silas Deane Hwy., Wethersfield, Conn. (B)
 Paterson Constr. Co., Inc., 66 Anderson St., New Haven, Conn. (B)
 Rice, Jos. N., Inc., 60 Peck St., P. O. Box 145, Sta. A, New Haven, Conn. (B)
 Schoolnick, Louis, Constr. Co., 49 Garden St., Hartford, Conn. (B)
 Smith Constr. Co., Inc., 101 Water St., Derby, Conn. (B)
 Sullivan, Frank P., Inc., 110 Tyler St., East Haven, Conn. (B)
 Tomlinson & Hawley, Inc., 472 North Ave., Bridgeport 6, Conn. (B)
 Torrington Bldg. Co., The, 187 Church St., Torrington, Conn. (B)
 Wadhams & May Co., The, 15 Lewis St., Hartford, Conn. (B)
 Wheeler, Earl C., 15 Lewis St., Hartford 3, Conn. (B)
 Wooding, C. F., Co., The, 43 Wallace Ave., Wallingford, Conn. (B)

7. DELAWARE**(a) ASSOCIATED GENERAL CONTRACTORS OF DELAWARE**

President—Frederic G. Krapf, 421 Orange St., Wilmington 22, Del.
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Bader, J. A., & Co., Inc., 923 Market St., Wilmington 7, Del. (B-H-Hvy)
 Bader, J. A., II, 1215 Gilpin Ave., Wilmington, Del. (B)
 Cantera Constr. Co., 1508 Pennsylvania Ave., Wilmington 6, Del. (B)
 Dangel's, David, Sons, 508 N. VanBuren St., Wilmington 3, Del. (B)
 DiSabatino & Ranieri, 612 W. 9th St., Wilmington, Del. (B)
 Dougherty, C. J., & Sons, Inc., 600 Tatnall St., Wilmington 22, Del. (B)
 Eckman, Chas. A., Co., 1707 Broome St., Wilmington 35, Del. (B)
 Fontana, D. M., 112 A St., Wilmington, Del. (B)
 George & Lynch Co., M210 Delaware Trust Bldg., Wilmington, Del. (B-H-Hvy)
 Haddock, W. D., Constr. Co., P. O. Box 268, Wilmington 43, Del. (B)
 Healy, John E., & Sons, Inc., 707 Tatnall St., Wilmington 22, Del. (B)
 Julian, Jas., Constr. Co., 405 S. duPont Rd., Wilmington, Del. (B-H-Hvy)
 Julian, John, Constr. Co., 109 S. duPont Rd., Wilmington, Del. (B-H-Hvy)
 Krapf, Frederic G., 421 Orange St., Wilmington 22, Del. (B)
 Lynch, Harry S., Co., Inc., 715 Tatnall St., Wilmington 22, Del. (B)
 Nutter Constr. Co., 1315 Brandywine Blvd., Cragmere, Wilmington, Del. (B)
 Rupert Constr. Co., 3400 Lancaster Ave., Wilmington 22, Del. (B)
 Standard Bitulithic, Box 27, New Castle, Del. (B-H-Hvy)
 Van Sant Bros., Inc., 14 Ashley Pl., Wilmington, Del. (B)
 Wilson, H. P., DuPont Blvd. & State Rd., New Castle, Del. (B-H-Hvy)

8. DISTRICT OF COLUMBIA**(a) MASTER BUILDERS ASSOCIATION, INC.—DISTRICT OF COLUMBIA**

President—Wm. E. Cramer, Cramer-Vollmerhausen Co., Inc., 2601 Connecticut Ave., N. W., Washington 8, D. C.

Secretary-Treasurer—Randall C. Wyant, 1931 K St., N. W., Washington 6, D. C.

Telephone: District 1089

American Constr. Co., Inc., 261 Constitution Ave., N. W., Washington 1, D. C. (B)
 Avery Constr. Co., Inc., 629 F St., N. W., Washington 4, D. C. (B)

(Symbols following names indicate type of construction performed by company; B—Building; H—Highway; Hvy—Heavy; RR—Railroad.)

A.G.C. DIRECTORY

DISTRICT OF COLUMBIA—Continued

Bahen, Jos. B., Constr. Co., Inc., 418 Randolph St., N. W., Washington 11, D. C. (B)

Bank Bldg. & Equip. Corp. of America, 506 11th St., N. W., Washington 5, D. C. (B)

Beauchamp, Victor R., Inc., 6837 4th St., N. W., Washington 12, D. C. (B)

Chappell, W. M., Co., 1219 Good Hope Rd., S. E., P. O. Box 4740, Anacostia 20, D. C. (B)

Cladny, M., Constr. Co., Inc., Barrister Bldg., 635 F St., N. W., Washington 4, D. C. (B)

Consolidated Engr. Co., Inc., 20 E. Franklin St., Baltimore 2, Md. (B)

Cramer-Vollmerhausen Co., Inc., 2601 Connecticut Ave., N. W., Washington 8, D. C. (B)

Daniels, E. L., 2112 N. Quincy St., Arlington, Va. (B)

Davis & Platt, Inc., 401 Butternut St., N. W., Washington 12, D. C. (B)

Davis, Wick, Rosengarten Co., Inc., 613 15th St., N. W., Washington 5, D. C. (B)

Day & Zimmermann, Inc., P. O. Box 37, Indian Head, Md. (B-Hvy)

DuLaney, P. F., 216 C St., N. W., Washington 1, D. C. (B)

Friel, E. B., & Son, 6230 3d St., N. W., Washington 12, D. C. (B)

Greenhill Engr. Co., Inc., 418 Florida Ave., N. E., Washington 2, D. C. (B)

Grove Shepherd Wilson & Kruege, Inc., Securities Bldg., 1425 H St., N. W., Washington 5, D. C. (B)

Hedin Constr. Co., 820 Michigan Ave., N. E., Washington 17, D. C. (B)

Hyman, Geo., Constr. Co., The, 1010 Vermont Ave., N. W., Washington 5, D. C. (B-Hvy)

Irons & Reynolds, Inc., 1724 H St., N. W., Washington 6, D. C. (B)

Irwin & Leighton, 2309 Bladensburg Rd., N. E., Washington, D. C. (B)

Jeffress-Dyer, Inc., 908 20th St., N. W., Washington 6, D. C. (B)

Johnson, John A. & Sons, Inc., Occidental Bldg., 1411 Pennsylvania Ave., N. W., Washington 4, D. C. (B)

Lipscomb, Wm. P., Co., Inc., 535 Woodward Bldg., Washington 5, D. C. (B)

Martell, F. H., Co., Inc., 1023 20th St., N. W., Washington 6, D. C. (B)

Martin, Geo. C., 6213 31st St., N. W., Washington 15, D. C. (B)

McCloskey & Co., 1620 W. Thompson St., Philadelphia 21, Pa. (B)

McShain, John, Inc., 16th & N. Arlington Ridge Rd., Arlington, Va. (B-Hvy)

Mohler Constr. Co., 1223 Connecticut Ave., N. W., Washington 6, D. C. (B)

Mooney, W. E., Co., Inc., 3924 14th St., N. W., Washington 11, D. C. (B)

National Engr. Co., Tower Bldg., 14th & K Sts., N. W., Washington 5, D. C. (B)

Nebel, Jos. F., Co., 2140 P St., N. W., Washington 7, D. C. (B)

Owens, T. Calvin, Inc., 2708 26th St., N. E., Washington 18, D. C. (B)

Parkhill Constr. Co., 14th St. & Park Rd., N. W., Riggs Bk. Bldg., Washington 10, D. C. (B)

Prescott Constr. Co., Inc., 1307 W St., N. W., Washington 9, D. C. (B)

Skinker & Garrett, 1719 Eye St., N. W., Washington 6, D. C. (B)

Solomon, David, Inc., 740 11th St., N. W., Washington 5, D. C. (B)

Spencer, Warren, Inc., 1350 Jonquil St., N. W., Washington 12, D. C. (B)

Tester, John, & Son, Inc., 1620 2d St., S. W., Washington 4, D. C. (B)

Tompkins, Chas. H., Co., 907 16th St., N. W., Washington 6, D. C. (B-Hvy)

Tuckman-Barbee Constr. Co., Inc., 6230 3d St., N. W., Washington 11, D. C. (B)

Turner Construction Co., 7400 Sheriff Rd., Fairmont Heights, Md. (B)

Turner, Lee T., 3616 14th St., N. W., Washington 10, D. C. (B)

Whitty Constr. Co., 1101 Vermont Ave., N. W., Washington 5, D. C. (B)

Wohlgemuth, C., Jr., Rm. 608, McLachlen Bldg., Washington 1, D. C. (B)

Zerkel Constr. Co., 16th Rd. & Arlington Ridge Rd., No. Box 233, Rosslyn Sta., Arlington 9, Va.

Local Members

Corson & Gruman Company, 33d & Water Sts., N. W., Washington 7, D. C. (H)

Standard Engr. Co., Inc., 2129 Eye St., N. W., Washington, D. C. (B)

9. FLORIDA

(a) NORTHEASTERN FLORIDA CHAPTER

President—Ira Koger, O. P. Woodcock Co., 430 W. Monroe St., Jacksonville 2, Fla.

Secretary-Treasurer—Robt. H. Jacobs, S. S. Jacobs & Co., P. O. Box 4217, Jacksonville 1, Fla.

Auchter, Geo. D., Co., The, 56th & Evergreen, Box 1193, Jacksonville 1, Fla. (B-H-Hvy)

Clayton, A. L., Co., 2446 Dennis St., Box 2525, Jacksonville 4, Fla. (B)

Cox, Fred M., 1644 Edgewood Ave., Jacksonville, Fla. (B)

Dupree, Henry G., 1125 Kings Ave., Jacksonville, Fla. (B)

Duval Engr. & Contr. Co., P. O. Box 1588, Jacksonville 1, Fla. (H)

East Coast Constr. Co., 1514 Gary St., Jacksonville 7, Fla. (B)

Foshee, D. O., Inc., 1561 La Rue Ave., Jacksonville 7, Fla. (B)

Gallespie Constr. Co., 218 W. Church St., Jacksonville 2, Fla. (B)

Girvin & White, P. O. Box 2022, Jacksonville, Fla. (B)

Hillyer & Lovan, Box 371, Jacksonville 1, Fla. (B-Hvy)

Hunter, E. H., P. O. Box 5359, Jacksonville, Fla. (B)

Jacobs, S. S., Co., Box 4217, Jacksonville 1, Fla. (B-Hvy)

Kenyon, E. C., 4276 Verona Ave., Jacksonville 5, Fla. (B)

Newkirk, A. D., & Son, 1436 June St., Jacksonville, Fla. (B)

Perry, Arthur F., Co., 1528 E. Adams St., Box 1577, Jacksonville, Fla. (B)

Small, Jas. H., & Co., Box 4786, Jacksonville 1, Fla. (B)

Smith, Ivy H., Co., P. O. Box 5098, Jacksonville 7, Fla. (B-H)

Smith, R. McDonald, 3867 Arden St., Jacksonville, Fla. (B)

Woodcock, O. P., Co., 430 W. Monroe St., Jacksonville 2, Fla. (B)

(b) SOUTH FLORIDA CHAPTER

President—Frank J. Rooney, Frank J. Rooney, Inc., 5880 N. E. 4th Ave., Miami 38, Fla.

Executive Manager—Paul H. Hinds, 1113 Congress Bldg., Miami 32, Fla.

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Albert Constr. Co., DuPont Bldg., Rm. 1115 Miami, Fla. (B)

Anaconda Constr. & Engr. Co., 303 E. Las Olas Blvd., Ft. Lauderdale, Fla. (B)

Bradford Bldrs., Inc., 1101 Lincoln Rd. Bldg., Miami, Fla. (B)

Brewer Co. of Florida, Inc., The, 3810 W. 21st St., Miami, Fla. (H)

DeGraff, Henry, & Son, 7160 N. W. 5th Pl., Miami, Fla. (B)

Deigaard & Preston Bldrs., 264 Giralda Ave., P. O. Box 733, Coral Gables 34, Fla. (B)

Edwards Constr. Co., Inc., 4203 Ponce de Leon Blvd., P. O. Box 1165, Coral Gables 34, Fla. (B)

Fleming, Edw. M., Constr. Co., 3304 N. Miami Ave., Miami 37, Fla. (B)

Gooch, J. Y., Co., Inc., 1205 Congress Bldg., P. O. Box 2170, Miami, Fla. (B)

Graham-Keeling Corp., 71 N. E. 21st St., Miami 37, Fla. (B)

Green, Edwin M., Inc., 775 N. W. 21st St., Miami 45, Fla. (B)

Hamilton Constr. Co., Inc., 7541 N. E. 3d Pl., Miami, Fla. (B)

Harrison, M. R., Constr. Corp., 5137 N. E. 2d Ave., Miami 37, Fla. (B)

Howland, Fred, Inc., 1451 N. W. 20th St., Miami 6, Fla. (B)

Kroetz, Wilbur L., Inc., 534 N. E. 6th Ave., Ft. Lauderdale, Fla. (B)

M & M Dredg. & Constr. Co., 2974 N. W. North River Dr., P. O. Box 27, M. O., Miami 1, Fla. (Hvy)

Mangham-Butler, Inc., 900 N. W. 42d Ave., Miami 36, Fla. (B)

Meyers, B. E., Inc., 365 Greco Ave., Coral Gables, Fla. (B)

Orr, John B., Inc., 485 N. W. 54th St., Drawer "R", Little River Sta., Miami 38, Fla. (B)

Powell Bros., Inc., 16 S. W. 1st Ave., P. O. Box 281, Ft. Lauderdale, Fla. (H-Hvy)

Price, W. T., Dredg. Corp., 3200 S. W. 27th Ave., Miami 33, Fla. (H-Hvy)

Reed Constr. Corp., 1345 20th St., Miami Beach 39, Fla. (Hvy)

Reynolds, D. H., Inc., 306 Bird Rd., P. O. Box 901, Coral Gables 34, Fla. (B)

Roberts, Lyle, Inc., 4033 Ponce de Leon Blvd., Coral Gables, Fla. (B)

Rooney, Frank J., Inc., 5880 N. E. 4th Ave., Miami 38, Fla. (B)

FLORIDA—Continued

S & B Constr. Co., 224 Palermo Ave., Coral Gables, Fla. (B)
 St. John Co., The, 295 N. E. 61st St., Miami 37, Fla. (B)
 Shinn Constr. Co., 12345 W. Dixie Hwy., North Miami, Fla. (B)
 Snyder Constr. Co., 206 S. W. 6th St., P. O. Box 681, Ft. Lauderdale, Fla. (H-Hvy-RR)
 Sparks Constr. Co., Inc., 4565 Ponce de Leon Blvd., Coral Gables, Fla. (B)
 Star Constr. Co., 1440 N. W. 21st St., Miami, Fla. (B)
 Stobs Bros. Constr. Co., 7010 N. E. 4th Ct., Miami, Fla. (B)
 Stow, Mulford, 2117 N. W. 17th Ave., Miami 42, Fla. (B)
 Taylor Constr. Co., 2875 N. LeJeune Rd., Miami, Fla. (B)
 Troup Bros., Inc., 4152 S. Dixie Hwy., P. O. Box 168, Coconut Grove Sta., Miami 33, Fla. (H)
 Turchin, Robt. L., Inc., 5800 Collins Ave., Miami Beach, Fla. (B)
 Wheeler, C. F., 810 N. W. 72d St., Miami, Fla. (B)
 Willits, Perry E., Inc., 882 N. E. 79th St., Miami, Fla. (B)
 Witters Constr. Co., Inc., P. O. Box 1446, Riverside Sta., Miami, Fla. (B)

(c) FLORIDA WEST COAST CHAPTER

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 Baya, Harry, Constr. Co., Inc., 910 1st Natl. Bk. Bldg., Tampa 2, Fla. (B)
 Benton, John A., Constr. Co., Inc., 301 20th St., So., St. Petersburg, Fla. (H-Hvy)
 Boyce Co., 605 Pennsylvania Ave., Clearwater, Fla. (Hvy)
 Clair-Mel Bldrs., Inc., 4002 Swann Ave., Tampa 9, Fla. (B)
 Clarson, R. E., Inc., 2000 13th Ave., No., P. O. Box 387, St. Petersburg, Fla. (B)
 Cone Bros. Contr. Co., Caesar St. & Cumberland, P. O. Box 652, Tampa 2, Fla. (H)
 Dawkins, C. T., 420 S. Rome Ave., Tampa 6, Fla. (B-Hvy)
 Ellis-Thompson Constr. Co., Inc., 901 Freemont Ave., No., Tampa 6, Fla. (B)
 Ewell, J. L., P. O. Box 791, Lakeland, Fla. (B-H)
 Fielland, C. A., Inc., 107 N. Rome Ave., Tampa 6, Fla. (B)
 Foster, M. H., Constr. Co., Inc., Box 10232, Tampa, Fla. (B)
 Fox & Fox, 2620 8th Ave., No., St. Petersburg, Fla. (B)
 Hammer Bldg. & Supply Co., Inc., 1302 Grand Central Ave., Tampa 6, Fla. (B)

Hardee-Walker Constr. Co., 303 E. Baker St., Plant City, Fla. (H-Hvy)
 Hartung Constr. Co., Inc., 2306 Bristol Ave., Tampa 9, Fla. (B)
 Haworth, Albert, 1103 Eva St., P. O. Box 2015, Tampa 4, Fla. (B)
 Hendry Bldg. Co., 1400 2d Ave., No., St. Petersburg, Fla. (B)
 Hennessey, A. P., & Sons, Inc., 1600 9th Ave., No., St. Petersburg, Fla. (B)
 Hubbard Constr. Co., P. O. Box 713, Orlando, Fla. (B-H-Hvy)
 International Constr. Corp., P. O. Box 10176, Tampa, Fla. (B)
 Keys, Clyde J., 20 11th St., So., St. Petersburg, Fla. (B)
 Langston Constr. Co., Inc., P. O. Box 3031, Orlando, Fla. (B-H)
 Lastinger Home Bldrs., Inc., 408 S. Nebraska Ave., Tampa 2, Fla. (B)
 Mabry, Chester, Constr. Co., 1529 Grand Central Ave., P. O. Box 806, Tampa 6, Fla. (B)
 Mann Constr. Co., 514 Florida Bk. Bldg., Orlando, Fla. (B)
 Mariani-O'Brien, Inc., 828 28th St., So., P. O. Box 1367, St. Petersburg, Fla. (B-Hvy)
 McAnulty, Inc., Walcaid Bldg., P. O. Box 240, Bradenton, Fla. (B)
 Mills & Jones, Inc., P. O. Box 264, 2260 4th Ave., So., St. Petersburg, Fla. (B)
 Moore, Edw. S., & Sons, 307 1st Ave., So., P. O. Box 608, St. Petersburg, Fla. (B)
 Owens, J. B., 3900 E. Broadway St., Tampa, Fla. (Hvy)
 Pemberton Bldrs., Inc., P. O. Box 90, Plant City, Fla. (B)
 Ranon & Jimenez, 809 E. Oak Ave., Tampa 2, Fla. (B)
 Saine Co., 314 Piedmont St., P. O. Box 2107, Orlando, Fla. (Hvy)
 Settecasì & Chillura, 2101 5th Ave., Tampa 5, Fla. (B)
 Smith, Paul, Constr. Co., 310 N. Rome Ave., P. O. Box 1912, Tampa 6, Fla. (B)
 Stansfield Constr. Co., 2401 Horatio St., Tampa 9, Fla. (B-Hvy-RR)
 Stephens, J. S., & Sons, 902 N. Rome Ave., Tampa 6, Fla. (B)
 Tyrone Gardens, Inc., Tyrone Blvd. & 9th Ave., No., St. Petersburg, Fla. (B)
 Van Eyck, T., 7009 Central Ave., Tampa 4, Fla. (B)
 White Constr. & Engr. Co., 300 22d St., So., St. Petersburg, Fla. (Hvy)

(d) NORTHWEST FLORIDA CHAPTER

President—Chas. L. Hendrick, Osceola Constr. Co., Mobile Hwy., P. O. Box 788, Pensacola, Fla.
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 Dyson & Co., P. O. Box 22, Pensacola, Fla. (B)

Fulghum, Kenneth, Inc., P. O. Box 643, Pensacola, Fla. (B)
 Olney Constr. Co., Inc., 3627 Admiral Murray Blvd., P. O. Box 4696, Pensacola, Fla. (B)
 Osceola Constr. Co., Mobile Hwy., P. O. Box 788, Pensacola, Fla. (B)
 Parda, T. J., 1215 N. DeVillers, Pensacola, Fla. (B)
 Soule Constr. Co., N. "O" St., P. O. Box 1725, Pensacola, Fla. (B)
 Turner, C. H., Co., 17½ S. Palafox St., P. O. Box 1747, Pensacola, Fla. (B)
 White Constr. Co., P. O. Box 2037, Pensacola, Fla. (B)

(e) FLORIDA EAST COAST CHAPTER

President—V. R. Gorham, Cleary Bros. Constr. Co., P. O. Box 6815, West Palm Beach, Fla.
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 Arnold Constr. Co., 7 Murray Bldg., Palm Beach, Fla. (B)
 Birdsall, John H., Jr., 338 Royal Palm Way, Palm Beach, Fla. (B)
 Butler & Oenbrink, 207 Royal Palm Way, Palm Beach, Fla. (B)
 Cleary Bros. Constr. Co., P. O. Box 6815, West Palm Beach, Fla. (H-Hvy)
 Coastal Properties Corp., P. O. Box 6095, West Palm Beach, Fla. (B)
 Hillier, Don, & Sons, Inc., P. O. Box 507, Pahokee, Fla. (B)
 Latham Constr. Co., 1400 Congress Ave., P. O. Box 165, West Palm Beach, Fla. (Hvy)
 Lissenden, P. C., Co., Inc., P. O. Box 88, Guaranty Bldg., West Palm Beach, Fla. (B)
 McLaren Bros. Constr. Co., 518 Comeau Bldg., West Palm Beach, Fla. (B)
 Murphy Constr. Co., The, P. O. Box 825, West Palm Beach, Fla. (H-Hvy)
 Sapp, J. Hilbert, Inc., 303 Gardenia St., West Palm Beach, Fla. (B)
 Sheldon, R. W., Constr. Co., P. O. Box 925, West Palm Beach, Fla. (B)

10. GEORGIA

(a) GEORGIA BRANCH

President—Merrill W. Newbanks, Merrill W. Newbanks Co., 125 Merritts Ave., N. E., Atlanta, Ga.
Executive Secretary—Hugh W. Roberts, Builders Bldg., 163 Harris St., N. W., Atlanta, Ga.
Telephone: Walnut 5941
 Adair, C. A. & Co., 73 W. Peachtree Pl., N. W., Atlanta 3, Ga. (B)
 Adams, A. K., & Co., Inc., 542 Plum St., N. W., Atlanta, Ga. (B)

(Symbols following names indicate type of construction performed by company; B—Building; H—Highway; Hvy—Heavy; RR—Railroad.)

GEORGIA—Continued

Archer Bros., Inc., 734 Boulevard, N. E., Atlanta, Ga. (B)
 Arco Co., 510 Edgewood Ave., N. E., Atlanta, Ga. (B)
 Artley Co., 504 E. Bay St., Savannah, Ga. (B)
 Barge-Thompson Co., 136 Ellis St., N. E., Atlanta 3, Ga. (B)
 Batson-Cook Co., Inc., P. O. Box 151, West Point, Ga. (B)
 Beck, Henry C., Co., 513 1st Natl. Bk. Bldg., Atlanta 3, Ga. (B)
 Beckham, E. M., Constr. Co., Perry, Ga. (H-Hvy)
 Beers Constr. Co., 70 Ellis St., N. E., Atlanta 3, Ga. (B)
 Beers, Gilbert, 489 Bishop St., N. W., Atlanta, Ga. (B)
 Black, J. J., & Co., 575 Plum St., N. W., Atlanta 3, Ga. (B)
 Blair, A. Farnell, Co., Inc., 1306 Spring St., N. W., Atlanta, Ga. (B)
 Bowen, R. A., Constr. Co., 3d & Hemlock Sts., Macon, Ga. (B-H)
 Bradfield, J. P., 218 Hill Bldg., Columbus, Ga. (B)
 Bray, J. N., Co., P. O. Box 528, Valdosta, Ga. (B)
 Briggs, A. R., Constr. Co., 526 Arch St., Macon, Ga. (B)
 Brittain-Pattillo Co., 204-6 Building & Loan Bldg., Decatur, Ga. (B)
 Byck-Worrell Constr. Co., Inc., 318 E. Bay St., P. O. Box 1330, Savannah, Ga. (B)
 Capital Constr. Co., 167 Harris St., N. W., Atlanta 3, Ga. (B)
 Caskey, G. M., & Son, 217 Thomas St., Athens, Ga. (B)
 Christian & Bell Co., 664 Spring St., N. W., Atlanta 3, Ga. (B)
 Collins, A. J., Floral City, Fla. (B)
 Concrete Bldrs., Inc., 800 East Ave., N. E., Atlanta, Ga. (B)
 Concrete Constr. Co., 137 Boulevard, N. E., Atlanta, Ga. (Hvy)
 Cornell-Young Co., P. O. Box 96, Macon, Ga. (H-Hvy-RR)
 Daniel Lumber Co., La Grange, Ga. (B)
 deGivie-Dunham & O'Neill, 617 Grand Bldg., Atlanta, Ga. (B)
 Donnellan, G. P., 274 Buckhead Ave., N. E., Atlanta, Ga. (B)
 Flagler Co., The, 305 Techwood Dr., Atlanta, Ga. (B)
 Georgia Southern Constr. Co., 754 Plum St., Macon, Ga. (B)
 Griffin Constr. Co., 26 3d St., N. W., Atlanta 3, Ga. (B-RR)
 Griffith & Moorehead, 33 Hunter St., S. W., Rm. 212, Atlanta, Ga. (B)
 H & H Constr. & Supply Co., Thomasville, Ga. (B)
 Hall Constr. Co., 664 Spring St., N. W., Atlanta, Ga. (B)
 Hallman Bros., 1155-57 W. Peachtree St., Atlanta, Ga. (B)
 Hardaway Contr. Co., P. O. Box 1360, Columbus, Ga. (H-Hvy)
 Hardin, Ira H., Co., 1000 Peachtree St., Atlanta, Ga. (B)
 Herrman Constr. Co., 800 Forrest St., N. W., Armour Bldg., Atlanta, Ga. (B)

Ivey, Henry A., Inc., 569 Plum St., N. W., Atlanta, Ga. (B)
 Jackson & Brittain, 224 W. Bay St., Savannah, Ga. (B)
 Jerome Constr. Co., 14 N. Abercorn St., Savannah, Ga. (B)
 Johnson, John A., & Sons, Inc., 206 Rogers St., N. E., Atlanta 3, Ga. (B)
 Johnson & Johnson Constr. Co., 401 West Bldg., Rome, Ga. (B)
 Johnston, Maynard, & Co., 2106 Belvedere Dr., N. W., Atlanta, Ga. (B)
 Jones, J. A., Constr. Co., Inc., 133 Ellis St., N. E., Atlanta, Ga. (B-H-Hvy-RR)
 Jones, Jiroud, & Co., 205 Walton Bldg., Atlanta 3, Ga. (B)
 Lambert, M. T., Co., 200 Peachtree Circle, N. E., Atlanta, Ga. (B-Hvy)
 Lee, Ray M., Co., 1004 Edgewood Ave., N. E., Atlanta, Ga. (B)
 McRae, Farquhar, 11 Arcade Bldg., Savannah, Ga. (B)
 Meador Constr. Co., 10 Harris St., N. W., Atlanta 3, Ga. (H-Hvy)
 Mion Constr. Co., 377 Techwood Dr., N. W., Atlanta 1, Ga. (B-H)
 Mobley, Clarence, Contr. Co., 640 11th St., Augusta, Ga. (B)
 Modern Repair Co., 74 Alexander St., N. W., Atlanta, Ga. (B)
 Modernization Constr. Co., 305 Techwood Dr., N. W., Atlanta, Ga. (B)
 Munn, Geo. R., 526 Plum St., N. W., Atlanta 3, Ga. (B)
 Newbanks, Merrill W., Co., 125 Merritts Ave., N. E., Atlanta, Ga. (B)
 Newsome, Douglas E., 1181 Henry Ave., Columbus, Ga. (B)
 Nonnemaker-Clayton Constr. Co., 70 Houston St., N. E., Atlanta 3, Ga. (B)
 P. & W. Constr. Co., Inc., 756 Hurt Bldg., Atlanta, Ga. (H)
 Pew, Arthur, Constr. Co., 3110½ Roswell Rd., Atlanta, Ga. (B-H-Hvy)
 Pound, Murphey, Constr. Co., P. O. Box 172, Columbus, Ga. (B)
 Raymond Concrete Pile Co., 1523 Healey Bldg., Atlanta, Ga. (H-Hvy-RR)
 Rose, W. P., Constr. Co., 280 Whiteford Ave., N. E., Atlanta, Ga. (B-H)
 Sanders, Marthame, & Co., 800 East Ave., N. E., Atlanta, Ga. (B)
 Scott Constr. Co., Thomasville, Ga. (H-Hvy)
 Shaw, M. E., Contr. Co., P. O. Box 871, Macon, Ga. (B)
 Smalling's, R. H., Sons, 301 Bibb Bldg., Macon, Ga. (B)
 Smith Constr. Co., 210 Peacock Bldg., P. O. Box 184, Albany, Ga. (B-H-Hvy-RR)
 Smith, R. T., 982 Lullwater Rd., N. E., Atlanta, Ga. (H)
 Southern Constr. Co., Inc., 1235 Reynolds St., Augusta, Ga. (B)
 Stillwell Constr. Co., P. O. Box 367, Macon, Ga. (B)
 Strother-Barge Co., 189 Cain St., N. E., Atlanta, Ga. (B)
 Swift Constr. Co., Swift Bldg., Columbus, Ga. (B)
 Thompson & Street Co., 72 11th St., N. E., Atlanta, Ga. (B)
 Tinker, H. G., P. O. Box 432, Macon, Ga. (B-H-Hvy)

Union Constr. Co., P. O. Box 1584, Atlanta, Ga. (H-Hvy-RR)
 Van Winkle & Co., Rm. 573, 805 Peachtree St. Bldg., Atlanta, Ga. (B)
 Wesley & Co., Inc., 285 Hunnicutt St., N. W., Atlanta, Ga. (B)
 Wey-Leonard Constr. Co., 200 Alexander St., N. W., Atlanta, Ga. (B)
 Whalley-Strong Co., Montgomery & 58th Sts., Savannah, Ga. (B)

11. IDAHO

(a) IDAHO BRANCH

President—C. B. Lauch, C. B. Lauch Constr. Co., Box 2559, Boise, Idaho
Manager—J. T. R. McCorkle, Hotel Boise, Boise, Idaho
Telephone: 2868

Arrington Constr. Co., P. O. Box 881, Idaho Falls, Idaho (B-Hvy)
 Aslett Constr. Co., Box 799, Twin Falls, Idaho (H)
 Barnhart & Wheeler, P. O. Box 1107, Pocatello, Idaho (H-Hvy)
 Bobier Constr. Co., Box 367, Twin Falls, Idaho (B)
 Brennan, J. W., Box 507, Pocatello, Idaho (B-Hvy)
 Burggraf Constr. Co., Box 397, Idaho Falls, Idaho (H)
 C-L Elec. Co., 410 S. Main St., Pocatello, Idaho (Hvy)
 Cahoon, W. R., Box 507, Pocatello, Idaho (B)
 Commercial Bldrs., Inc., Box 302, Moscow, Idaho (B-H-Hvy-RR)
 Detweiler Bros., Inc., P. O. Box 870, Twin Falls, Idaho (Hvy)
 Duffy, Warren C., 404 12th Avenue Rd., Nampa, Idaho (B)
 Elle, C. H., Constr. Co., 390 Monroe Ave., P. O. Box 1010, Pocatello, Idaho (B)
 Fulton, E. A., 2610 Davis St., Boise, Idaho (B)
 Goodwin Constr. Co., Hopkins Bldg., Box 791, Blackfoot, Idaho (B-H-Hvy)
 Halvorson Constr. Co., Salem, Oreg. (H-Hvy)
 Hess, Marion J., P. O. Box 247, Malad, Idaho (H-Hvy)
 Holmes Constr. Co., Rt. 1, Heyburn, Idaho (H)
 Hoops Constr. Co., Box 431, Twin Falls, Idaho (H-Hvy)
 Horn, Henry L., Rt. 1, Moses Lake, Wash. (Hvy)
 Idaho Constrs., Inc., 1311 N. 25th, Boise, Idaho (H-Hvy)
 Intermountain Bldrs., Inc., P. O. Box 506, Caldwell, Idaho (B)
 Intermountain Plumbing Co., 1322 Grove St., P. O. Box 1652, Boise, Idaho (B-Hvy)
 Kloepper & Gramkow, 416 S. 6th St., Boise, Idaho (B)
 Lauch, C. B., Constr. Co., Box 2559, Boise, Idaho (B)
 Marrazzo, Tony, Box 876, Boise, Idaho (H)
 Martin Constr. Co., 502 Idaho Bldg., P. O. Box 2614, Boise, Idaho (B-Hvy)
 McCorkle, Tom, Constr. Co., 3001 Idaho St., Box 2578, Boise, Idaho (H)

IDAHO—Continued

McNeel, H. J., Inc., 1024 Arthur St., Caldwell, Idaho (B)
 Morrison-Knudsen Co., Inc., 319 Broadway, Box 450, Boise, Idaho (H-Hvy-RR)
 Mountain States Constr. Co., Inc., Hwy. 30, Pocatello, Idaho (H-Hvy)
 Olson, Jack C., Lorenzo, Idaho (B-H-Hvy)
 Pickett & Nelson, P. O. Box 755, Idaho Falls, Idaho (H)
 Quinn-Robbins Co., Inc., 703 S. 16th St., Boise, Idaho (H)
 Read, Fred W., Rt. 3, Twin Falls, Idaho (B)
 Reed, Duffy, Constr. Co., Box 1092, Twin Falls, Idaho (H)
 Reynolds & Walker, Inc., Box 363, Twin Falls, Idaho (B)
 Terteling, J. A., & Sons, Inc., P. O. Box 1428, Boise, Idaho (B-H-Hvy-RR)
 Triangle Bldg. Co., Inc., 429 B St., Idaho Falls, Idaho (B-Hvy)
 Triangle Constr. Co., 3507 Crescent Rim Dr., Boise, Idaho (H-Hvy)
 Twin Falls Constr. Co., Box 1081, Twin Falls, Idaho (H)
 Valley Crushing Co., P. O. Box 863, Boise, Idaho (H)
 Vernon Bros. Co., Box 1787, Boise, Idaho (B-Hvy)
 Watkins, C. W., & Son, P. O. Box 1786, Boise, Idaho (B)
 Western Constr. Co., Box 628, Pocatello, Idaho (H)
 Wise, J. H., & Son, 424 Broadway, Boise, Idaho (B)

12. ILLINOIS

(a) CHICAGO BUILDERS' CHAPTER

President—Royal L. Brockob, R. L. Brockob Constr. Co., 815 S. Cicero Ave., Chicago 44, Ill.
 Secretary—H. M. Stanton, Builders Bldg., 228 N. LaSalle St., Chicago 1, Ill.
 Telephone: Franklin 2-4380
 Ahern, Wm. S., Constr. Co., 159 E. Chicago Ave., Chicago 11, Ill. (B)
 Albrecht, E. J., Co., 2626 W. 26th St., Chicago 8, Ill. (B)
 Anderson, J. Emil & Son, 1809 Balmoral Ave., Chicago 40, Ill. (B)
 Blauner Constr. Co., 208 N. Wells St., Chicago 6, Ill. (B)
 Boyle, M. J., & Co., 2480 N. Elston Ave., Chicago 47, Ill. (B-Hvy)
 Brockob, R. L., Constr. Co., 815 S. Cicero Ave., Chicago 44, Ill. (B)
 Builders Co., The, 700 N. State Bldg., 2 W. Huron St., Chicago 10, Ill. (B)
 Bulley & Andrews, 2040 W. Harrison St., Chicago 12, Ill. (B)
 Carroll Constr. Co., 333 N. Michigan Ave., Chicago 1, Ill. (B)
 Coath & Goss, Inc., 5103 W. Lake St., Chicago 44, Ill. (B)
 Continental Constr. Co., 340 N. Central Ave., Chicago 44, Ill. (B)

Dahl-Stedman Co., 7 S. Dearborn St., Chicago 3, Ill. (B)
 Ellington-Miller Co., 25 E. Jackson Blvd., Chicago 4, Ill. (B-RR)
 Ericsson, Henry, Co., 228 N. LaSalle St., Chicago 1, Ill. (B)
 Farthing Bros., 602 E. Hickory St., Streator, Ill. (B)
 Federal Constr., Inc., 173 W. Madison St., Chicago 2, Ill. (B)
 FitzSimons & Connell Dredge & Dock Co., 10 S. LaSalle St., Chicago 3, Ill. (B-Hvy)
 Fuller, George A., Company, 111 W. Washington St., Chicago 2, Ill. (B)
 Goss, Wm. R., Co., 8316 S. Ellis Ave., Chicago 19, Ill. (B)
 Greene & Gust Co., 1154 Lunt Ave., Chicago 26, Ill. (B)
 Griffiths, John, & Son Constr. Co., 228 N. LaSalle St., Chicago 1, Ill. (B)
 Haigh, Jos., & Sons Co., 38 S. Dearborn St., Chicago 3, Ill. (B)
 Haynes, C. W., Co., 135 S. LaSalle St., Chicago 3, Ill. (B)
 Herlihy Mid-Continent Company, 135 S. LaSalle St., Chicago 3, Ill. (B)
 Iber, C., & Sons, P. O. Box 1166, Peoria, Ill. (B)
 Jackson, A. L., Co., 161 E. Erie St., Chicago 11, Ill. (B)
 Johnson, Chas. B., & Son, 6 N. Michigan Ave., Chicago 2, Ill. (B)
 Johnson, Geo. D., Co., 420 5th Ave., Peoria 1, Ill. (B)
 Kaiser-Ducett Co., 80 E. Jackson Blvd., Chicago 4, Ill. (B)
 Kinnare Corp., The, 2816 W. Monroe St., Chicago 12, Ill. (B)
 Kralh Constr. Co., 350 N. Clark St., Chicago 10, Ill. (B)
 Krumdieck, Leo, 3622 S. Damen Ave., Chicago 18, Ill. (B)
 Larson, Algot B., Inc., 3837 W. Lake St., Chicago 24, Ill. (B)
 LaSalle Constr. Co., 343 S. Dearborn St., Chicago 4, Ill. (B)
 Leonard Constr. Co., 37 S. Wabash Ave., Chicago 3, Ill. (B)
 Lincoln, Martin P., Co., 2108 Berteau Ave., Chicago 18, Ill. (B)
 Lynch, W. J., Co., 1 N. LaSalle St., Chicago 2, Ill. (B)
 Macdonald Engr. Co., 188 W. Randolph St., Chicago 1, Ill. (B)
 Many, B. J., Co., Inc., 30 N. LaSalle St., Chicago 2, Ill. (B)
 Marhofer, E. H., Jr., Co., 505 N. LaSalle St., Chicago 10, Ill. (B)
 McHugh, Jas., Constr. Co., 6449 S. South Park Ave., Chicago 37, Ill. (B)
 Meyne, Gerhardt F., Co., 7 S. Dearborn St., Chicago 3, Ill. (B)
 Midland Constr., Inc., 222 W. Adams St., Chicago 6, Ill. (B)
 Missner Constr. Co., 2940 N. Campbell Ave., Chicago 18, Ill. (B)
 Montague Constr. Co., 228 N. LaSalle St., Chicago 1, Ill. (B)
 Nielsen, S. N., Co., 3059 Augusta Blvd., Chicago 22, Ill. (B)

Olson, Sherman, Inc., 600 W. Jackson Blvd., Chicago 7, Ill. (B)
 O'Neil, W. E., Constr. Co., 2751 N. Clybourn Ave., Chicago 14, Ill. (B)
 Permanent Constr. Co., 208 S. LaSalle St., Chicago 4, Ill. (B)
 Perry Constr. Co., 251 W. 79th St., Chicago 20, Ill. (B)
 Pfutzenreuter, Henry, & Sons, Inc., 2255 W. Grand Ave., Chicago 12, Ill. (B)
 Rymont Corp., 228 N. LaSalle St., Chicago 1, Ill. (B)
 Sherry-Richards Co., 201 N. Wells St., Chicago 6, Ill. (B)
 Snyder, J. W., Co., 307 N. Michigan Ave., Chicago 1, Ill. (B)
 Sollitt, Geo., Constr. Co., 109 N. Dearborn St., Chicago 2, Ill. (B)
 Strandberg, L. B., & Son Co., 608 S. Dearborn St., Chicago 5, Ill. (B-H)
 Strandberg, Stewart O., Co., 134 S. LaSalle St., Chicago 3, Ill. (B-Hvy)
 Thorgersen & Erickson Co., 228 N. LaSalle St., Chicago 1, Ill. (B)
 Tully, John C., Co., 33 N. LaSalle St., Chicago 2, Ill. (B-Hvy)
 Turner Construction Co., 105 W. Adams St., Chicago 3, Ill. (B)
 W-M Corp., 608 S. Dearborn St., Chicago 5, Ill. (B-Hvy-RR)
 Young & Sons Constr. Co., Inc., 7553 Cregier Ave., Chicago 49, Ill. (B)

(b) ASSOCIATED BUILDING CONTRACTORS OF ROCKFORD, ILLINOIS, INC.

President—Chas. J. Scandrol, Scandrol Constr. Co., 823 N. Madison St., Rockford, Ill.

Vice President—Ture Bloom, Hokanson & Bloom, 507 N. Chicago Ave., Rockford, Ill.

Secretary-Treasurer—Mrs. Clara M. Miller, 203 Gateway Bldg., 121 7th St., Rockford, Ill.

Telephone: 3-8513

Glass Constr. Co., P. O. Box 47, Belvidere, Ill. (B)
 Hokanson & Bloom, 507 N. Chicago Ave., Rockford, Ill. (B)
 Holm-Page Co., The, 2117 Kishwaukee St., Rockford, Ill. (B)
 Holmquist, F. E., P. O. Box 1541, 514 Warren Ave., Rockford, Ill. (B)
 Linden & Sons, Inc., 1102 10th St., Rockford, Ill. (B)
 Lundin & Grip, Inc., 1203 22d St., Rockford, Ill. (B)
 Pearce, Frank S., Co., 115 N. Court St., Rockford, Ill. (B)
 Scandrol Constr. Co., 823 N. Madison St., Rockford, Ill. (B)
 Schmeling, E. W., & Sons, Inc., 1031 School St., Rockford, Ill. (B)
 Security Bldg. Co., Inc., 717 E. Jefferson St., Rockford, Ill. (B)
 Sjoström & Sons, Inc., 1718 7th Ave., Rockford, Ill. (B)

(Symbols following names indicate type of construction performed by company; B—Building; H—Highway; Hvy—Heavy; RR—Railroad.)

ILLINOIS—Continued

(c) ASSOCIATED GENERAL CONTRACTORS OF ILLINOIS

President—T. E. Fieweger, Central Engr. Co., 2531 Rockingham Rd., Davenport, Iowa
Executive Secretary—Milo P. Flickinger, 319½ S. 6th St., P. O. Box 377, Springfield, Ill.
Telephone: 5746

Anderson Bros., 1700 Seminary St., P. O. Box 1571, Rockford, Ill. (H-Hvy)
 Arrow Petroleum Co., 7419 Franklin St., Forest Park, Ill. (B-H-Hvy)
 Bates & Rogers Construction Corp., 600 W. Jackson Blvd., Chicago 6, Ill. (Hvy-RR)
 Berenz & Son, 500 E. Bell St., Bloomington, Ill. (H-Hvy)
 Bremer, J. C., 928 S. Main, Hillsboro, Ill. (B-H-Hvy)
 Bridges Paving Co., 1411 Central Industrial Dr., St. Louis 10, Mo. (H-Hvy)
 Burch Constr. Co., Washington Bldg., Madison 3, Wis. (H-Hvy)
 Burner, J. R., Oblong, Ill. (H-Hvy)
 Cameron, Joyce & Co., 19 S. 7th St., Keokuk, Iowa (H-Hvy)
 Central Engr. Co., 2531 Rockingham Rd., Davenport, Iowa (B-H-Hvy)
 Champaign Asphalt Co., 310 E. Bradley Ave., Champaign, Ill. (H)
 Chism & Miller, 228 N. U. S. 66 By-Pass, Springfield, Ill. (H-Hvy)
 Clark Bros. Co., 309 S. Jefferson Ave., Peoria 2, Ill. (H-Hvy)
 Collins-Bruley Constr. Co., P. O. Box 228, Decatur 6, Ill. (H-Hvy)
 Denny, Dale, Constr. Co., 507 S. Green St., Anna, Ill. (H-Hvy)
 Edwardsville Constr. Co., Bk. of Edwardsville Bldg., Edwardsville, Ill. (H-Hvy)
 Ellison Constr. Co., P. O. Box 53, Carthage, Ill. (H)
 Ernest Asphalt Sales Co., 320 N. 4th St., St. Louis 2, Mo. (H)
 Feutz, Frank C., Co., 901 Tenbroeck St., Paris, Ill. (H-Hvy)
 Fleming & Kilgo Constr. Co., P. O. Box 191, (old St. Louis Rd.), East Alton, Ill. (H-Hvy)
 Ford, R. W., 704 S. Market St., Marion, Ill. (H-Hvy)
 Franklin Asphalt Co., Benton, Ill. (H)
 Freeman, Jesse H., Inc., 1608½ 5th Ave., Moline, Ill. (H-Hvy)
 Gallagher Asphalt Co., Inc., P. O. Box 173, Thornton, Ill. (H)
 General Bldrs. Co., 314 N. 8th St., Springfield, Ill. (B-H-Hvy)
 General Paving Co., 30 E. John St., Champaign, Ill. (H-Hvy)
 Granite Bituminous Paving Co., 3943 Duncan Ave., St. Louis 10, Mo. (H-Hvy)
 Groves, S. J., & Sons Co., P. O. Box 312, Springfield, Ill. (H-Hvy)
 Gund Graham Co., State Bk. Bldg., Freeport, Ill. (H-Hvy)
 Gunther, H. H., Constr. Co., 600 E. Main St., Galesburg, Ill. (H-Hvy)
 Hall, H. H., Constr. Co., 211 S. 15th St., East St. Louis, Ill. (H-Hvy)

Harrison Engr. & Constr. Corp., 4638 Mill Creek Pkwy., Kansas City 2, Mo. (H-Hvy)
 Hoeffken, M., Co. & Hoeffken Bros., Inc., 222 W. B St., Belleville, Ill. (H-Hvy)
 Holdren Constr. Co., P. O. Box 417, Mt. Vernon, Ill. (H-Hvy)
 Huckaba & Sons Constr. Co., P. O. Box 104, Mattoon, Ill. (H-Hvy)
 Illinois Steel Bridge Co., 205 Allen Ave., Jacksonville, Ill. (H-Hvy)
 Ind. Chas., Co., R. R. #1, Point Ave., Rockford, Ill. (H-Hvy)
 J-P Constr. Co., The, P. O. Box 123, 1750 State St., Chicago Heights, Ill. (H-Hvy)
 Jansen & Schaefer, 15th & Broadway, Pekin, Ill. (B-H-Hvy)
 Jefferson Asphalt Co., Inc., 1209 Casey, Mt. Vernon, Ill. (H)
 Joliet Bridge & Constr. Co., 68 N. Chicago St., Rm. 323, Joliet, Ill. (H-Hvy)
 Joyce Bros. Contr. Co., 715 Myers Bldg., Springfield, Ill. (H-Hvy)
 Keeley Bros. Contr. Co., 4211 State St., East St. Louis, Ill. (H-Hvy)
 Keeley, Jos. P., Contr. Co., 4409 Caseyville Ave., East St. Louis, Ill. (B-H-Hvy)
 Lake Bros. Constr. Co., 900 S. 2d St., Effingham, Ill. (H-Hvy)
 Lake, D. M., Constr. Co., Box 109, Shelbyville, Ill. (H-Hvy)
 Larson, Elmer, Inc., 320 Prospect St., P. O. Box 383, DeKalb, Ill. (H-Hvy)
 Lough, Wm., & Sons, 305 S. Granite St., Marion, Ill. (H-Hvy)
 M. & S. Oil & Constr. Co., 435 Missouri Ave., East St. Louis, Ill. (H)
 Maclair Asphalt Co., Inc., 6000 Collinsville Rd., East St. Louis, Ill. (H-Hvy)
 Madison Constr. Co., P. O. Box 222, Edwardsville, Ill. (H-Hvy)
 Marsch, Louis, Morrisonville, Ill. (H)
 Mason & Meents Constr. Co., Watseka, Ill. (H-Hvy)
 Mass, H. H., Constr. Co., Main St., Algonquin, Ill. (H-Hvy)
 Mautz & Oren, Inc., 406-408 W. Jefferson St., Effingham, Ill. (B-H-Hvy)
 Mayes, Chas. A., Constr. Co., Albion, Ill. (H-Hvy)
 McCalman Constr. Co., 629 Section St., P. O. Box 854, Danville, Ill. (H-Hvy)
 McCann & Co., Inc., Rm. 532, Reich Bldg., Springfield, Ill. (H-Hvy)
 McCarthy Improvement Co., 602 Kahl Bldg., Davenport, Iowa (H-Hvy)
 Miller, W. L., Co., Elvaston, Ill. (H-Hvy)
 Mitchell Contr. Co., 216 E. Madison St., Herrin, Ill. (H-Hvy-RR)
 Moore Bros., Inc., 2000 St. Claire Ave., East St. Louis, Ill. (H-Hvy)
 Moore Engr. Co., P. O. Box 420, Mt. Vernon, Ill. (H-Hvy)
 Moritz, C. J., Inc., Box 598, Effingham, Ill. (B-H-Hvy-RR)
 O'Connor Constr. Co., Box 292, 610 Reich Bldg., Springfield, Ill. (H-Hvy-RR)
 Potashnick, R. B., P. O. Box 205, Cape Girardeau, Mo. (H-Hvy)
 Powers-Thompson Constr. Co., 27 S. Chicago St., Joliet, Ill. (H-Hvy)
 Princeville Stone Co., Princeville, Ill. (H-Hvy)

Quad City Constr. Co., Inc., 644 25th Ave., Rock Island, Ill. (H-Hvy)
 Regenhardt Constr. Co., 302 Hemmelberger-Harrist Bldg., Cape Girardeau, Mo. (H-Hvy)
 Rocho, Edw. M., Constr. Co., Inc., 418 2d Natl. Bk. Bldg., Freeport, Ill. (H-Hvy)
 Rockford Black Top Constr. Co., 1615 Westchester Dr., Rockford, Ill. (H)
 Ross, J. A., & Co., 4807 Fullerton Ave., Chicago 39, Ill. (H-Hvy-RR)
 S. M. H. Constr. Co., 1500 N. Adams St., Peoria 3, Ill. (H-Hvy)
 Sangamo Constr. Co., P. O. Box 222, Springfield, Ill. (H-Hvy)
 Sankey Bros., Inc., 402 Illinois Bldg., Springfield, Ill. (H)
 Shappert Engr. Co., E. Menominee & Blaine Sts., Belvidere, Ill. (H-Hvy)
 Simonds, E. T., Constr. Co., 202 W. Willow St., Carbondale, Ill. (H-Hvy)
 Stilfield, Ben K., Constr. Co., Inc., 517 12th St., Rock Island, Ill. (H-Hvy)
 Stocker Gravel & Constr. Co., 509 Main St., Highland, Ill. (B-H-Hvy)
 Strunk Bros., Tiskilwa, Ill. (H-Hvy)
 Swords-McDougal Co., 1500 N. Adams St., Peoria 3, Ill. (H-Hvy-RR)
 Thompson Asphalt Co., P. O. Box 28, Madison, Ill. (H-Hvy)
 Tillman, G. E., Co., Inc., 702 N. Locust St., Centralia, Ill. (B-H-Hvy)
 Triangle Constr. Co., 480 N. Evergreen Ave., Kankakee, Ill. (H-Hvy)
 Trinidad Asphalt Mfg. Co., Chouteau Bldg., 4030 Chouteau Ave., St. Louis 10, Mo. (H)
 Tri-State Engr. Co., P. O. Box 615, Benton, Ill. (H-Hvy)
 Tritt Bros., Belleville Natl. Bk. Bldg., Belleville, Ill. (H-Hvy)
 Trompeter Constr. Co., 2428 4th St., Peru, Ill. (H-Hvy)
 Valley Bldrs., Inc., 100 E. St. Paul St., Spring Valley, Ill. (H-Hvy)
 Valley Engr. Co., Colson Bldg., 116½ W. Main St., St. Charles, Ill. (H-Hvy)
 Wetherby, J. P., Constr. Co., 1016 W. Superior, Ottawa, Ill. (H-Hvy)
 Whetzel Bros., 201 N. Walnut St., Champaign, Ill. (H-Hvy)
 Zimmerly Constr. Co., S. Marshall St., Paris, Ill. (H-Hvy)

(d) SOUTHERN ILLINOIS BUILDERS ASSOCIATION

President—Chas. A. Rook, R. & R. Constr. Co., 735 Park Dr., Alton, Ill.
Secretary-Treasurer—C. M. Lomax, S. M. Wilson & Co., 1616 Cleveland Ave., P. O. Box 173, Granite City, Ill.
Telephone: Tri City 6-3466

Altman, J. J., & Co., 1764½ State St., East St. Louis, Ill. (B)
 Barmac Constr. Co., Inc., P. O. Box 141, Chester, Ill. (B)
 Bauer Bros. Constr. & Supply Co., 424 Lebanon Ave., Belleville, Ill. (B-Hvy)
 Conduit Contr. Co., Inc., 2317 Tennessee Ave., St. Louis 4, Mo. (H-Hvy)

ILLINOIS—Continued

Fruin-Colnon Contr. Co., 1706 Olive St., St. Louis 3, Mo. (B-Hvy-RR)
 Ganschietz, Ferd., 501 N. 18th St., East St. Louis, Ill. (B)
 General Contr. Co., Inc., 23d & Lincoln Ave., Granite City, Ill. (B-Hvy)
 Grabbe, H. A., Constr. Co., 409 Commercial Bldg., Alton, Ill. (B-Hvy)
 Hall, H. H., Constr. Co., 211 S. 15th St., East St. Louis, Ill. (B-Hvy)
 Hoeffken, M. Co. & Hoeffken Bros., Inc., N. 3d & W. B Sts., Belleville, Ill. (B-Hvy)
 Hursey, Clinton, Constr. Co., 1235 Missouri Ave., East St. Louis, Ill. (Hvy)
 Keeley Bros. Contr. Co., 4211 State St., East St. Louis, Ill. (H-Hvy)
 Keeley, John J., 2030 State St., East St. Louis, Ill. (B)
 Keeley, Jos. P., Contr. Co., 4409 Caseyville Ave., East St. Louis, Ill. (B-H-Hvy)
 Latta, J. E., Constr. Co., Inc., 6609 Latta Pl., St. Louis 20, Mo. (B-Hvy)
 Logan-Walter Constr. Co., Ludwig Bldg., Public Sq., Belleville, Ill. (B)
 Moore Bros., Inc., 2000 St. Claire Ave., East St. Louis, Ill. (B)
 Murch-Jarvis Co., Inc., 718 Locust St., St. Louis, Mo. (B)
 R. & R. Constr. Co., 735 Park Dr., Alton, Ill. (B)
 Stephens, Edgar, & Sons, Inc., 216 10th St., Cairo, Ill. (B)
 Studebaker, Tom, Constr. Co., 2434 Edison Ave., Granite City, Ill. (B)
 Tarlton, G. L., Contr. Co., 5505 Dale Ave., St. Louis 10, Mo. (B-H-Hvy)
 Vollmar Bros. Constr. Co., Foot of Victor St., St. Louis 4, Mo. (B-Hvy)
 Watson, Harold L., 1101 Missouri Ave., East St. Louis, Ill. (B-Hvy)
 Wheatley, Geo. W., & Son, P. O. Box 603, Duplo, Ill. (B)
 Wilson, C. T., Contr. Co., 99 E. Grand St., Louis 7, Mo. (B)
 Wilson, S. M., & Co., 1616 Cleveland Ave., P. O. Box 173, Granite City, Ill. (B)
 Wolfe, M. H., & Co., Inc., 1877 Pontoon, Nameoki, Ill. (B)

Local Members

Evans Constr. Co., Esquire Theatre Bldg., 1324 S. MacArthur Blvd., Springfield, Ill. (B)
 Felmeley, John, Co., 603 Peoples Bank Bldg., Bloomington, Ill. (B)
 Herlily Mid-Continent Company, 135 S. La-Salle St., Chicago 3, Ill. (B-Hvy-RR)
 Jobst, V., & Sons, 1209 Lehmann Bldg., Peoria 2, Ill. (B)
 Simmons, J. L., Company, Inc., 2146 N. Woodford St., P. O. Box 69, Decatur 60, Ill. (B-Hvy)

13. INDIANA

(a) INDIANA HIGHWAY CONSTRUCTORS, INC.

President—Ray L. Schutt, R. L. Schutt Co., 215 E. New York St., Indianapolis 4, Ind.

Executive Secretary—W. M. Holland, 801 Roosevelt Bldg., Indianapolis 4, Ind.

Telephone: Lincoln 7547

Allen, G. H., 804 N. 5th St., Vincennes, Ind. (H)
 Babcock, W. C., Constr. Co., P. O. Box 237, Rensselaer, Ind. (H-Hvy)
 Berns Constr. Co., 312 E. Washington St., Indianapolis 4, Ind. (H)
 Bontrager Constr. Co., 618 W. Indiana Ave., Elkhart, Ind. (H)
 Breslin Constr. Co., Inc., 1801 S. Brook St., Louisville 8, Ky. (H)
 Brooks Constr. Co., 1123 Barthold St., Fort Wayne 7, Ind. (H)
 Calumet Paving Co., W. 96th St. & Zionsville Rd., Zionsville, Ind. (H-Hvy)
 Dailey, L. W., Constr. Co., 1034 Oakland St., Fort Wayne 7, Ind. (H)
 DeBolt Constr. Co., Inc., P. O. Box 208, Richmond, Ind. (H)
 Dehner, John, Inc., 1206 Clark St., Fort Wayne 7, Ind. (H)
 Dougherty, A. L., Co., 403 Guaranty Bldg., Indianapolis 4, Ind. (H)
 Fauber Constr. Co., P. O. Box 496, Lafayette, Ind. (H)
 Fauber, L. Walker, 319 Claremont Ave., Ashland, Ohio (H)
 Feigel Constr. Corp., 403 Court Bldg., Evansville 19, Ind. (H)
 Gast Constr. Co., P. O. Box 249, 216 S. Columbia St., Warsaw, Ind. (H)
 General Dredg. Co., Inc., 2200 LaFontain St., Fort Wayne 6, Ind. (H)
 Goodwin Constr. Co., Inc., P. O. Box 157, Danville, Ind. (H)
 Grace Constr. & Supply Co., The, 1825 S. Anthony Blvd., Fort Wayne 4, Ind. (H)
 Grady Bros., Inc., Carmel, Ind. (H)
 Grady Bros., Inc., 915 S. Somerset Ave., Indianapolis 23, Ind. (H)
 Gunsaulus, L. H., & Son, Kendallville, Ind. (H)
 Hart & Hart, P. O. Box 338, Providence, Ky. (H)
 Harvey, Geo. R., & Son, Danville, Ind. (H)
 Hipkind Drainage Co., 1725 Winter St., Fort Wayne 4, Ind. (H)
 Kahl & Mahon, 402 N. Main St., Liberty, Ind. (H)
 Kelly, John F., P. O. Box 267, 34th St. & Fort Harrison Rd., Terre Haute, Ind. (H)
 King, Robt. H., 85 S. Washington St., Danville, Ind. (H)
 Kruzick, Geo., Constr. Co., P. O. Box 87, Winamac, Ind. (H)
 Magaw, W. L., Hawkins Rd., P. O. Box 330, Richmond, Ind. (H)
 McCalman Constr. Co., 619 Section St., P. O. Box 854, Danville, Ill. (H-Hvy)

McMahan Constr. Co., 107 E. 9th St., Rochester, Ind. (H)
 Meitz-Spears-Dehner Co., Inc., 1212 Clark St., Fort Wayne 7, Ind. (H)
 Meshberger Bros. Stone Corp., P. O. Box 81, Linn Grove, Ind. (H)
 Middle West Roads Co., P. O. Box 30, Noblesville, Ind. (H)
 Moellering Constr. Co., 241 Murray St., Fort Wayne 5, Ind. (H-Hvy)
 Mohr Constr. Co., Inc., 1420 S. Union St., Kokomo, Ind. (H)
 Myers, Ralph, Contr. Corp., Salem, Ind. (H-Hvy)
 O'Connor, J. C., & Sons, Inc., 2104 Miner St., Fort Wayne 6, Ind. (H-Hvy)
 Olinger Constr. Co., P. O. Box 96, Olinger Bldg., Huntingburg, Ind. (H-Hvy)
 Phend & Brown, Milford, Ind. (H)
 Powers-Thompson Constr. Co., 27 S. Chicago St., Joliet, Ill. (H)
 Rieth-Riley Constr. Co., W. Madison St., P. O. Box 477, Goshen, Ind. (H-Hvy)
 Rock Road Constr. Co., 5915 N. Rogers Ave., Chicago 30, Ill. (H)
 Ruckman-Hansen, Inc., 3617 Leo Rd., Fort Wayne 8, Ind. (H)
 Ryan Constr. Corp., 402 Court Bldg., Evansville 19, Ind. (H-Hvy)
 Ryan & Ryan, Inc., P. O. Box 346, Washington, Ind. (H)
 Scheirer, Wilbur C., 305 Harvard Ter., Frankfort, Ind. (H)
 Schutt, R. L., Co., 215 E. New York St., Indianapolis 4, Ind. (H)
 Serodino, V. P., Inc., 7 W. North Bend Rd., Cincinnati 16, Ohio (H)
 Sheehan Constr. Co., 205 Holliday Bldg., 241 E. Ohio St., Indianapolis 4, Ind. (H-Hvy)
 Smalley, D. R., & Sons, Inc., 426 W. Market St., Celina, Ohio (H)
 Smith & Johnson, Inc., P. O. Box 650, 1799 Kentucky Ave., Indianapolis 6, Ind. (H-Hvy)
 Studebaker, C. A., Constr. Co., Uniondale, Ind. (H)
 Stuntz-Yeoman Co., Inc., Delphi, Ind. (H)
 Sweet, J. S., Co., R. R. 1, Cambridge City, Ind. (H)
 Thompson Constr. Co., Inc., 3840 Prospect St., Indianapolis 3, Ind. (H)
 Tisdale & Collins Constr. Co., P. O. Box 87, Beech Grove, Ind. (H)
 Traylor Bros., Inc., Sta. B, Box 66, Evansville 12, Ind. (H)
 Tri-State Constr. Co., The, 3100 E. 56th St., Indianapolis 20, Ind. (H)
 Walsh & Ikeler, R. R. 2, Gary, Ind. (H)
 Wayne Paving, Inc., 1825 S. Anthony Blvd., Fort Wayne 4, Ind. (H)
 Weikel Constr. Co., Inc., The, 1150 Fairview Ave., Fort Wayne 8, Ind. (H)
 White, Wm. L., & Son, 400 N. 10th St., Terre Haute, Ind. (H)
 Winslow Constr. Co., 508 N. Water St., Salem, Ind. (H)
 Wright, W. V., Constr. Co., 6626 Lakeshore Dr., Dallas 14, Texas (H)

(Symbols following names indicate type of construction performed by company; B—Building; H—Highway; Hvy—Heavy; RR—Railroad.)

A.G.C. DIRECTORY

INDIANA—Continued

(b) INDIANA GENERAL CONTRACTORS' ASSOCIATION

President—Clyde E. Yater, Shelby Constr. Co., Inc., 1235 Jefferson Ave., Shelbyville, Ind.

Executive Secretary—C. Oliver Holmes, 1456 N. Delaware St., Indianapolis 2, Ind.

Telephone: Riley 2382

Abraham, W. J., & Sons, Inc., 8th & Pershing Sts., Seymour, Ind. (B)
 Bahre, Geo., Co., 1015 Southeastern Ave., Indianapolis 2, Ind. (B)
 Brandt Bros. & Co., 1925 Fletcher Ave., Indianapolis 3, Ind. (B)
 Bryant Co., Cincinnati St. & Pennsylvania R. R., P. O. Box 118, Franklin, Ind. (B)
 Burrell, Thos. L., Inc., 4000 E. 16th St., Indianapolis 7, Ind. (B-Hvy)
 Cannon Constr. Co., Inc., 1913 Winfield Ave., Indianapolis 22, Ind. (B)
 Colvin, Leslie, 507 Board of Trade Bldg., 143 N. Meridian, Indianapolis 4, Ind. (B)
 Crabtree-Maule Corp., 529 N. W. 7th, Friends Box 33, Richmond, Ind. (B-Hvy)
 Cramer, E. F., 224 N. Alabama St., Indianapolis 4, Ind. (B)
 Drew, Jas. H., Corp., 503 Architects & Builders Bldg., Indianapolis 4, Ind. (B)
 Dunlap & Co., Inc., 522 Jackson St., Columbus, Ind. (B)
 Fatout Bldg. Co., The, 3422 Winthrop Ave., Indianapolis 5, Ind. (B)
 Garriott, Jay A., P. O. Box 215, Bedford, Ind. (B)
 Geupel, Carl M., Constr. Co., 1919 N. Meridian St., Indianapolis 2, Ind. (B)
 Glaser, A. J., Co., Inc., P. O. Box 649, 401 S. Lincoln St., Muncie, Ind. (B)
 Glenroy Co., 450 S. Ritter Ave., Indianapolis 19, Ind. (B)
 Hanson, Frank W., 645 N. Davidson St., Indianapolis 2, Ind. (B)
 Harlos Constr. Co., 219 W. 4th St., Bloomington, Ind. (B)
 Huber, Hunt & Nichols, Inc., P. O. Box 128, Indianapolis 6, Ind. (B)
 Hunnicutt, A. R., Co., 2110 Spring St., P. O. Box 128, New Castle, Ind. (B)
 Juerling, Vincent H., & Sons, 1229 S. 8th St., Richmond, Ind. (B)
 Jungclauss, Wm. P., Co., Inc., 825 Massachusetts Ave., Indianapolis 4, Ind. (B)
 Krebay Constr. Co., 108 E. 9th St., Indianapolis 2, Ind. (B)
 Ostrom Constr. Co., Inc., 335 K. of P. Bldg., Indianapolis 4, Ind. (B)
 Reddington, J. D., 6160 N. Sherman Dr., Indianapolis 20, Ind. (B)
 Repp & Mundt, Inc., 1604 Cottage Ave., Columbus, Ind. (B)
 Schenck, R. E., Co., 1538 N. Meridian St., Indianapolis 2, Ind. (B)
 Service Constr. Co., 533-5 K. of P. Bldg., Indianapolis 4, Ind. (B)
 Shelby Constr. Co., Inc., 1235 Jefferson Ave., P. O. Box 152, Shelbyville, Ind. (B)
 Simmons, J. L., Company, Inc., 12th Fl. Inland Bldg., Indianapolis 4, Ind. (B-Hvy)

Snyder, Lawrence J., Corp., 110 N. Elm St., P. O. Box 772, Muncie, Ind. (B)
 Stackhouse, A. V., Co., 2611 Winthrop Ave., Indianapolis 5, Ind. (B)
 Stone, L. L., Inc., 8015 E. 46th St., P. O. Box 252, Lawrence 26, Ind. (B-Hvy)
 Tousley, H. D., Co., Inc., 925 E. St. Clair St., Indianapolis 4, Ind. (B)
 Wagner, Chas. E. W., Co., Inc., 430 S. 12th St., Richmond, Ind. (B)
 Wilhelm, F. A., 3914 Prospect St., Indianapolis 3, Ind. (B)

(Calumet Division)

Adinolfi, John A., 3827 Main St., P. O. Box 240, East Chicago, Ind. (B)
 Becker, Peter, P. O. Box 213, Calumet City, Ill. (B)
 Clark, Roy C., 804 E. Chicago Ave., East Chicago, Ind. (B-Hvy)
 Foster, J. M., & Co., 5711 W. 5th Ave., P. O. Box 622, Gary, Ind. (B-Hvy)
 General Constr. Co. of Michigan City, Inc., 416 Franklin St., Michigan City, Ind. (B)
 Gerometta Constr. Co., 857 Virginia St., Gary, Ind. (B)
 Larson-Danielson Constr. Co., Inc., 302 Tyler St., La Porte, Ind. (B)
 Olney, H. B., Inc., 1202 E. Chicago Ave., East Chicago, Ind. (B-Hvy)
 Rahn, John F., Inc., 500 W. 150th St., East Chicago, Ind. (B-Hvy)
 Rowley, Fred C., & Sons, Inc., 4732 Calumet Ave., Hammond, Ind. (B-H-Hvy-RR)
 Rueth, Leo, & Sons, Inc., 1050 Cherry St., Hammond, Ind. (B)
 Schumaker Constr. Co., E. Michigan at Warnke Rd., Michigan City, Ind. (B-Hvy-RR)
 Superior Constr. Co., 1800 E. 7th Ave., P. O. Box 630, Gary, Ind. (B)
 Swenson Carlson Bldrs., Inc., Cline & Chicago Ave., P. O. Box 330, East Chicago, Ind. (B)
 Tonn & Blank, Inc., 104 N. Franklin St., Michigan City, Ind. (B)

(Evansville Division)

Aalco Constr. Co., 1171 Diamond Ave., Evansville, Ind. (B)
 Anderson & Loer, 410 W. Iowa St., Evansville 11, Ind. (B)
 Anderson & Veatch, Inc., 223 S. E. 8th St., Evansville 9, Ind. (B)
 Rust Constr. Corp., P. O. Box 695, Evansville 2, Ind. (B)
 T aylor Bros., Inc., Sta. B, Box 66, Evansville, Ind. (H)

(Fort Wayne Division)

Buesching Bros. Constr. Co., 219 E. Berry St., Fort Wayne 2, Ind. (B-Hvy)
 Bunger, Harry, & Son, Cromwell, Ind. (B)
 Hagerman Constr. Corp., 403 Strauss Bldg., Fort Wayne 2, Ind. (B)
 Indiana Constr. Co., Inc., 201 Ft. Wayne Bk. Bldg., Fort Wayne 2, Ind. (B)
 Irmacher, Max, & Sons, Inc., 1113 Ft. Wayne Bk. Bldg., Fort Wayne 2, Ind. (B)

Schenkel, Wm. P., & Sons, 1120 St. Mary's Ave., Fort Wayne 7, Ind. (B)
 Sheets, W. A., & Sons, Inc., 1057 Osage St., P. O. Box 119, Fort Wayne 1, Ind. (B)
 Wermuth, Inc., 1036 St. Mary's Ave., Fort Wayne 7, Ind. (B-Hvy).

(South Bend Division)

Christman, H. C., Constr. Co., Inc., 850 Fellows St., South Bend 24, Ind. (B)
 Schumacher, Peter, & Sons, Inc., 321 S. Spring St., Mishawaka, Ind. (B)
 Sollitt Constr. Co., Inc., 301 S. Columbia St., South Bend 24, Ind. (B)

(Terre Haute Division)

Cutshall, J. M., & Son, Riddell Natl. Bk. Bldg., Brazil, Ind. (B)
 Garmong, C. H., & Son, 1201 Crawford St., Terre Haute, Ind. (B)
 Johnson, Drake & Piper, Inc., 112 N. 7th St., P. O. Box 595, Terre Haute, Ind. (B)
 Kretz, John H., 409 Center St., Washington, Ind. (B)
 Roehm Bros., Inc., 30½ N. 5th St., Terre Haute, Ind. (B)
 Sanford, W. H., Corp., 306 N. 11th St., P. O. Box 297, Terre Haute, Ind. (B)
 Snyder Constr. Co., Inc., 1900 Chestnut St., Vincennes, Ind. (B)

(Wabash Valley Division)

Barnes, Jas. I., Constr. Co., Barnes Bldg., P. O. Box 16, Logansport, Ind. (B)
 Bowman Constr. Co., Inc., 1127 S. Branson St., Marion, Ind. (B)
 Doran, A. L., R. R. #4, Peru, Ind. (B)
 Dunkin, W. R., & Son, 750 S. Indiana St., Bluffton, Ind. (B)
 Harrelld Bros., 901½ W. 3d St., Marion, Ind. (B)
 Kemmer, A. E., Box 375, 3d & Brown Sts., Lafayette, Ind. (B)
 Kettelhut, K. H., 70-B Lafayette Loan & Trust Bldg., Lafayette, Ind. (B)
 Mayfield Constr. Co., 1311 N. Ann St., Kokomo, Ind. (B)
 Price & Price, Inc., 318 Ferry St., Lafayette Ind. (B)
 Pugh, John T., R.R. 2, Rochester, Ind. (B)
 Siegfried, Jos. E., 409 Perrin Ave., Lafayette, Ind. (B)
 Wolf Constr. Co., 613 W. Market St., Logansport, Ind. (B)

14. IOWA

(a) ASSOCIATED GENERAL CONTRACTORS OF IOWA

President—C. C. Diehl, Ferguson-Diehl, Inc., Jefferson, Iowa
Executive Secretary—O. W. Crowley, 707 Keo Way, Des Moines 9, Iowa
Telephone: 4-6287

Abramson, John P., Constr. Co., 720 Savings & Loan Bldg., Des Moines 9, Iowa (B-H-Hvy-RR)
 Alexander & Repass, 309 Securities Bldg., Des Moines 9, Iowa (H-Hvy-RR)

IOWA—Continued

- Andersen Contr. Co., 1225 Stephenson Way, Des Moines 14, Iowa (H)
 Anderson, Adolph G., 1403 1st Ave., E., Spencer, Iowa (H)
 Anderson, B. L., 327 Guaranty Bldg., Cedar Rapids, Iowa (H)
 Armstrong, J. D., Co., Inc., Box 307, Ames, Iowa (H)
 Atlantic Constr. Co., Inc., 1650 Northwest Dr., Des Moines 10, Iowa (H)
 Baker, Myron, P. O. Box 61, Gilmore City, Iowa (H)
 Barker-Rose Constr. Co., 109 S. 6th St., Marshalltown, Iowa (H)
 Benderhoff, V. C., S. E. 5th & Hartford, Des Moines 15, Iowa (H)
 Blunk, J. C., Constr. Co., 524 W. Main St., Ottumwa, Iowa (H)
 Booth & Olson, Inc., Insurance Exch. Bldg., Box 304, Sioux City 2, Iowa (H-Hvy)
 Boyette, M. E., Constr. Co., Kensett, Iowa (H)
 Braden Constr. Co., Griswold, Iowa (H)
 Brogan Constr. Co., 307 Masonic Temple Bldg., Des Moines 9, Iowa (H)
 Burch Constr. Co., Washington Bldg., Madison 3, Wis. (H)
 Burch, R. B., Inc., 1718 Park Ave., S. E., Cedar Rapids, Iowa (H-Hvy)
 Cameron, Joyce & Co., 19 S. 7th St., Keokuk, Iowa (H-Hvy)
 Carlson Constr. Co., Box K, Essex, Iowa (H)
 Carlson Constr. Co., c/o O. H. Johnson, 656 N. 59th St., Omaha, Nebr. (H)
 Carlson, Fred, Co., Inc., Decorah, Iowa (H)
 Central Constr. Co., Indianola, Iowa (H)
 Central Engr. Co., 2531 Rockingham Rd., Davenport, Iowa (B-H-Hvy)
 Christensen Bros., 3011 Virginia St., Sioux City 18, Iowa (H)
 Clark Bros. Constr. Co., Hinton, Iowa (H)
 Clinton Bridge Corp., 101 S. 2d St., Clinton, Iowa (H-Hvy)
 Clinton Engr. Co., 1323 N. 2d St., Clinton, Iowa (H-Hvy)
 Coffeen, A. R., Co., 906 S. Mill St., Decorah, Iowa (B-H-Hvy)
 Cohron, A. M., & Son, 6110 S. W. 12th St., Des Moines, Iowa (B-H)
 Cole, Ben, & Son, 114 Clark Ave., Ames, Iowa (B-H-Hvy)
 Concrete Materials & Constr. Co., Box 790, 405 Granby Bldg., Cedar Rapids, Iowa (H)
 Condon-Cunningham Company, 4229 Lafayette Ave., Omaha 3, Nebr. (H-Hvy-RR)
 Cook, Ray, Constr. Co., Ames, Iowa (H)
 Costigan, J. C., Elkader, Iowa (B-H)
 Council Bluffs Constr. Co., 106 S. 17th St., Box 646, Council Bluffs, Iowa (H)
 Cunningham-Reis Co., 1020 Liberty Bldg., Des Moines 9, Iowa (H-Hvy-RR)
 Curphy, Bill, Co., 448 Insurance Exch. Bldg., Des Moines, Iowa (H-Hvy-RR)
 Des Moines Asphalt Paving Co., Box 922, Des Moines 4, Iowa (H)
 Des Moines Steel Co., 421 S. W. 4th St., Des Moines 4, Iowa (H-Hvy)
 Diesch Constrs., 204 Bertsch, Waterloo, Iowa (H)
 Dixon Bros. Co., Correctionville, Iowa (H)
 Dobson Bros. Constr. Co., 512 1st Natl. Bk. Bldg., Lincoln, Nebr. (H-Hvy)
 Duesenberg, E. M., Inc., Clear Lake, Iowa (H)
 Duvall, P. K., Inc., Logan, Iowa (H)
 Easton Constr. Co., 315½ Main St., Ames, Iowa (H)
 Eblen, Orville, Atlantic, Iowa (H)
 Ekdahl, Hilding, 613 N. 8th St., Ft. Dodge, Iowa (H)
 Emco Constr. Co., Algona, Iowa (H)
 Everds Bros., Box 374, Algona, Iowa (H)
 Falk, L. R., St. Ansgar, Iowa (H)
 Ferguson-Diehl, Inc., Jefferson, Iowa (H-Hvy)
 Gee Constr. Co., P. O. Box 15, Shenandoah, Iowa (H)
 Gillotti Constr. Co., 1405 S. E. 1st St., Des Moines 15, Iowa (H-Hvy)
 Gjellefeld Constr. Co., Forest City, Iowa (Hvy)
 Gould Constr. Co., The, 507 Security Bldg., Davenport, Iowa (Hvy-RR)
 Graves Bros. Co., Melvin, Iowa (H)
 Green Constr. Co., 312 Masonic Temple Bldg., Des Moines 9, Iowa (H-Hvy)
 Green, Ralph, & W. L. Groesbeck, 312 Masonic Temple, Des Moines 9, Iowa (H-Hvy)
 Haegg Constr. Co., Box 769, Cedar Rapids, Iowa (H)
 Hahn Constr. Co., 4103 1st St., Des Moines, Iowa (H-Hvy)
 Hanson Constr. Co., 106 W. 17th, Washington, Iowa (H-Hvy)
 Hargrave Constr. Co., 2424 Bever Ave., S. E., Cedar Rapids, Iowa (H)
 Harrison Engr. & Constr. Co., 4638 Mill Creek Pkwy., Kansas City 2, Mo. (H-Hvy)
 Heckman-Reynolds Co., Charles City, Iowa (H)
 Herrick, G. G., Box 1355, Des Moines 9, Iowa (H-Hvy)
 Hoak Constr. Co., Box 37, West Des Moines, Iowa (Hvy)
 Hobe Engr. Co., 2121 E. 4th St., Sioux City 19, Iowa (H)
 Holland Bros. Constr. Co., Inc., Decorah, Iowa (H)
 Horrabin, Wm., Contr. Co., 15 E. College, Iowa City, Iowa (H)
 Hymans, John, & Sons, Hull, Iowa (H)
 Iowa Bridge Co., 311 Central Natl. Bldg., Des Moines 9, Iowa (Hvy)
 Jensen Constr. Co., 1901 Easton Blvd., Des Moines 16, Iowa (H-Hvy)
 Jensen & Krage, 2220 Hawkeye Dr., Sioux City 19, Iowa (H-Hvy)
 Johnson, M. L., 112 32d St. Dr., S. E., Cedar Rapids, Iowa (H)
 Johnston, Wagner, Constr. Co., 622 Insurance Exch. Bldg., Sioux City 13, Iowa (H)
 Kaser Constr. Co., Box 36, West Des Moines, Iowa (H)
 Kehe Constr. Co., Box 324, Waverly, Iowa (B-Hvy)
 Kiewit, Peter, Sons' Co., 1024 Omaha Natl. Bk. Bldg., Omaha, Nebr. (B-H-Hvy-RR)
 Kitzmann Constr. Co., 513 Boulevard Rd., Keokuk, Iowa (B-Hvy)
 Koss Construction Company, 205 Farm Bureau Bldg., Des Moines 9, Iowa (H-Hvy-RR)
 Kramme, E. A., Co., Inc., 311 Central Natl. Bldg., Des Moines 9, Iowa (H-Hvy-RR)
 Kucharo Constr. Co., 225 Jewett Bldg., Des Moines 9, Iowa (B)
 Leonhard, J. T., Constr. Co., Columbus Junction, Iowa (H)
 Linnan, W. B., Pocahontas, Iowa (H)
 Lippert Bros., Inc., 827 Monona St., Boone, Iowa (B-Hvy)
 Lowe Constr. Co., Box 58, Marion, Iowa (H)
 Lundeen Constr. Co., Montezuma, Iowa (H)
 Lytle, C. F., Company, Box 206, Sioux City, Iowa (H-Hvy-RR)
 Mathis, A. F., 205 4th St., West Des Moines, Iowa (Hvy)
 McCarthy Improvement Co., 602 Kahl Bldg., Davenport, Iowa (H-Hvy)
 McGuire, M. T. & John T., Algona, Iowa (H)
 McNeill, J. W., Constr. Co., 4509 3d Ave., Sioux City 13, Iowa (H)
 Melberg, Amos, 316 19th St., S. E., Cedar Rapids, Iowa (H)
 Mickle & Ross Constr. Co., Box 541, Newton, Iowa (H)
 Miller, John G., Constr. Co., 222 W. Mullan Ave., Waterloo, Iowa (B)
 Missouri Valley Limestone Co., Inc., 516 Paramount Bldg., Des Moines 9, Iowa (H)
 Montgomery, F. O., Co., Humboldt, Iowa (H)
 Moser, F. A., Farmersburg, Iowa (H)
 Mott Constr. Co., 308 W. Prairie St., Centerville, Iowa (Hvy)
 Myers Bros., Ft. Atkinson, Iowa (H-RR)
 National Constr. Co., 1335 S. 20th St., Omaha 2, Nebr. (H)
 Neumann, Arthur H., & Bros., Inc., 514 Hubbell Bldg., Des Moines 9, Iowa (B)
 Nielsen, Wilbur, Co., Blencoe, Iowa (H-Hvy)
 Noel, Harry, 1414 Grand Ave., Spencer, Iowa (H)
 Norman, F. L., Box 215, Sidney, Iowa (B)
 North Central Constr. Co., Hampton, Iowa (H)
 Olson, A., Constr. Co., 1225 Commercial St., Waterloo, Iowa (H)
 Ostermann, Gus, & Sons, Ocheyedan, Iowa (H)
 Peterson Bros., Laurens, Iowa (H)
 Pittsburgh-Des Moines Steel Co., 1015 Tuttle St., Des Moines 9, Iowa (H-Hvy)
 Quad City Constr. Co., Inc., 644 25th Ave., Rock Island, Ill. (Hvy)
 Quealy Excavating & Wrecking Co., 650 S. 16th St., Ft. Dodge, Iowa (Hvy-RR)
 Roberts Bros., Chariton, Iowa (H)
 Ryan, J. T., Box 653, Oelwein, Iowa (H)
 Sani Constr. Co., 102 Forest Ave., Des Moines 14, Iowa (H)
 Schildberg Constr. Co., Greenfield, Iowa (H)
 Schmidt Constr. Co., Winfield, Iowa (H)
 Schroeder, H. F., & Sons, Arcadia, Iowa (H)
 Scothorn Constr. Co., Cherokee, Iowa (H)
 Shirey, C. W., 84 W. Mullan, Waterloo, Iowa (H-Hvy)
 Shirley Constr. Co., 1103 W. O. W. Bldg., Omaha 2, Nebr. (H)
 Spencer, E. B., Constr. Co., 2840 W. 4th St., Waterloo, Iowa (H)

(Symbols following names indicate type of construction performed by company; B—Building; H—Highway; Hvy—Heavy; RR—Railroad.)

A.G.C. DIRECTORY

IOWA—Continued

States Constr. Co., 3018 Kingman Blvd., Des Moines 11, Iowa (H)
 Strother, J. P., Constr. Co., Eldon, Iowa (H)
 Strother & Riehm, Inc., Eldon, Iowa (H)
 Taylor, C. B. & M. R., Decorah, Iowa (H-Hvy)
 Torvik & Sons Constr. Co., 209 5th Ave., Decorah, Iowa (H)
 Union Constr. Co., 227 Jewett Bldg., Des Moines 9, Iowa (H-Hvy)
 Upham, Dale, Box 184, West Union, Iowa (H)
 Van Buskirk, Ira, & Sons, Hawarden, Iowa (H)
 Van Dusseldorp, Eben, 724 E. Division St., Colfax, Iowa (H)
 Weaver, M. O., Inc., 539 5th St., Des Moines 9, Iowa (H)
 Weitz Co., Inc., The, 406 Fleming Bldg., Des Moines 9, Iowa (B)
 Welden Bros., Iowa Falls, Iowa (H-Hvy-RR)
 Western Contracting Corporation, 400 Benson Bldg., Sioux City 15, Iowa (H-Hvy-RR)
 Western Engr. Co., Box 350, Harlan, Iowa (H)
 Wickes Engr. & Constr. Co., 1441 2d Ave., Des Moines 14, Iowa (B-H)
 Wilson, Robt. M., Guttenberg, Iowa (B-Hvy)

(b) MASTER BUILDERS OF IOWA

President—Clyde C. Younglove, W. A. Klinger Co., 2015 E. 7th St., Sioux City 15, Iowa
Executive Secretary—Walter W. Moeller, 110 Hubbell Bldg., Des Moines, Iowa
Telephone: 8-1081

Allied Engr. Co., Atlantic, Iowa (B)
 Andersen Constr. Co., 619 S. Main St., Council Bluffs, Iowa (B)
 Bey, Roy K., 1226 Elmhurst Dr., N. E., Cedar Rapids, Iowa (B)
 Bride & Didier, 1520 25th St., Sioux City, Iowa (B)
 Castle, E. B., & Son, 231 12th St., Marion, Iowa (B)
 Christensen Constr. Co., 839 3d Ave., Sibley, Iowa (B)
 Clinton Engr. Co., 1323 N. 2d St., Clinton, Iowa (B)
 Coffeen, A. R., Co., 906 S. Mill St., Decorah, Iowa (B)
 Cohron, A. M., & Son, 6110 S. W. 12th St., Des Moines, Iowa (B)
 Cole, Ben, & Son, 114 Clark Ave., Ames, Iowa (B)
 Conlon Constr. Co., 240 Railroad Ave., Dubuque, Iowa (B)
 Coomer, R. M., Constr. Co., 523 Insurance Exch. Bldg., Sioux City, Iowa (B)
 Cowan, H. J., Co., Algona, Iowa (B)
 Darnier, Phil, 231 W. Main St., Ottumwa, Iowa (B)
 Davey & Moen, 604 Brick & Tile Bldg., Mason City, Iowa (B)
 Dimmitt Constr. Co., Box 287, Shenandoah, Iowa (B)
 Drape Constr. Co., 212 2d Ave., N. W., Waverly, Iowa (B)

Edson, R. C., 229 Cayuga St., Storm Lake, Iowa (B)
 Epperson & Co., Box 327, Sumner, Iowa (B)
 Fagre Constr. Co., 1201 3d Ave., So., Estherville, Iowa (B)
 Fell & Anton, 219 W. Mullan, Waterloo, Iowa (B)
 Forest City Improvement Co., Forest City, Iowa (B)
 Garmer & Stiles Co., 519 14th St., Des Moines, Iowa (B)
 Gethmann Constr. Co., Inc., Gladbrook, Iowa (B)
 Grabau, R. H., Constr. Co., R. F. D. 3, Boone, Iowa (B)
 Grosz, M. J., 1807 8½ Ave., No., Ft. Dodge, Iowa (B)
 Hansen, Arthur V., Co., 2009 Grand Blvd., Cedar Falls, Iowa (B)
 Hansen, Chris, 1615 E. 7th St., Sioux City 19, Iowa (B)
 Haring, Daniel, Co., Inc., 122 5th Ave., So., Clinton, Iowa (B)
 Henkel Constr. Co., 525 9th St., S. E., P. O. Box 149, Mason City, Iowa (B)
 Hermans Constr. Co., 1027 N. 3d St., Ft. Dodge, Iowa (B)
 Hersom, C. L., Laurens, Iowa (B)
 Holtze, H. S., Constr. Co., 2121 E. 4th St., Sioux City 19, Iowa (B)
 Jackson Constr. Co., 2805 W. Main St., Emmetsburg, Iowa (B)
 Jacobson, Con. Co., 103 S. 1st, Marshalltown, Iowa (B)
 Johnson Engr. & Constr. Co., Box 554, Storm Lake, Iowa (B)
 Jorgensen, O., & Sons, 1014 Roosevelt St., Clinton, Iowa (B)
 Jorstad, John, 2907 Grandview, Sioux City, Iowa (B)
 K-M Constr. Co., 1600 Garfield Ave., Dubuque, Iowa (B)
 Kepp, W. A., & Sons Co., P. O. Box 166, Orange City, Iowa (B)
 Klinger, W. A. Co., 2015 E. 7th St., Sioux City 15, Iowa (B)
 Klise Constr., 1719½ State St., Bettendorf, Iowa (B)
 Knudson, Wm., & Sons, 608-610 Flynn Bldg., Des Moines 9, Iowa (B)
 Krammer, C. J., 2800 10th Ave., No., Ft. Dodge, Iowa (B)
 Kucharo & Assos., Inc., 225 Jewett Bldg., Des Moines, Iowa (B)
 Kucharo Constr. Co., 225 Jewett Bldg., Des Moines 9, Iowa (B)
 Larsen, C. C., & Sons, 10 N. Main St., Council Bluffs, Iowa (B)
 Lippert Bros., Inc., 827 Monona St., Boone, Iowa (B)
 Lippert Constr. Co., Oelwein, Iowa (B)
 Loomis Bros., 509½ 3d Ave., S. E., Cedar Rapids, Iowa (B)
 Lovejoy Constr. Co., 1118 Mulberry St., Des Moines 9, Iowa (B)
 Mattson, W. A., 2803 West Ave., Burlington, Iowa (B)
 Mayer-Heier, Hotel Moore Bldg., Clarion, Iowa (B)
 McCorkle, L. E., Contr. Co., Winterset, Iowa (B)

McCorkle, Paul, Constr. Co., Sac City, Iowa (B)
 McCreedy, M. D., Constr. Co., Inc., 1205 Seymour Ave., Iowa City, Iowa (B)
 Mildenstein, Max, 1714 E. Ave., N. E., Cedar Rapids, Iowa (B)
 Miller, John G., Constr. Co., 222 W. Mullan Ave., Waterloo, Iowa (B)
 Morehead Constr. Co., 217 Dows Bldg., Cedar Rapids, Iowa (B)
 Mueller Constr. Co., 2001 Fremont St., Marshalltown, Iowa (B)
 Nelson, Carl A., & Co., Inc., 1815 Des Moines Ave., Burlington, Iowa (B)
 Nemmers Bros., 21 1st Ave., N. E., LeMars, Iowa (B)
 Neumann, Arthur H., & Bros., Inc., 514 Hubbell Bldg., Des Moines 9, Iowa (B)
 Olesen, Jens, & Sons Constr. Co., 321 W. 18th St., Box 575, Waterloo, Iowa (B)
 Osterling Constr. Co., Inc., 422½ W. Main, Cherokee, Iowa (B)
 Paist, Chas. E., Estate, 2606 Willis St., Perry, Iowa (B)
 Park, Paul, Co., W. 5th & Railroad, Storm Lake, Iowa (B)
 Paulson, O. F., Constr. Co., 401 Iowa Theatre Bldg., Cedar Rapids, Iowa (B)
 Peterson, C. A., & Sons, 217 N. Union St., Rock Rapids, Iowa (B)
 Priestner Constr. Co., 1121 Davenport Bk. Bldg., Davenport, Iowa (B)
 Reimer, C. F., Constr. Co., Inc., P. O. Box 12, Marshalltown, Iowa (B)
 Rinderknecht, R. W., Co., 113 F Ave., N. W., Cedar Rapids, Iowa (B)
 Ringland-Johnson, Inc., 202 Cooper Bldg., Des Moines, Iowa (B)
 Schaefer, Henry R., Co., 1326 W. 3d St., Davenport, Iowa (B)
 Schumacher, Herman, Box 378, Hull, Iowa (B)
 Smith Constr. Co., Inc., 512 Ave. G, Ft. Madison, Iowa (B)
 Soller, John, Constr. Co., 717 Harrison St., Davenport, Iowa (B)
 Sparks Constr. Co., 222 High Ave., E., Oskaloosa, Iowa (B)
 Spencer Constr. Co., 10 W. 5th St., Spencer, Iowa (B)
 Stark, Don R., & Co., Inc., 400 E. Mill St., P. O. Box 576, Ottumwa, Iowa (B)
 Stolz, R. A., Constr. Co., 103 N. Chestnut, New Hampton, Iowa (B)
 Thompson, Jas., & Sons, 222 E. 3d St., Ames, Iowa (B)
 Tunnell Constr. Co., 105 Fillmore St., Davenport, Iowa (B)
 Vawter, Fane F., & Co., 207 9th St., Des Moines, Iowa (B)
 Walker, C. Glenn, Co., 515 2d Ave., So., Ft. Dodge, Iowa (B)
 Washburn Constr. Co., 304 E. Washington St., Centerville, Iowa (B)
 Wayman, W. M., Constr. Co., 320 Redding-ton Ave., Cherokee, Iowa (B)
 Weitz Co., Inc., The, 406 Fleming Bldg., Des Moines 9, Iowa (B)
 Wickes Engr. & Constr. Co., 1441 2d Ave., Des Moines 14, Iowa (B)
 Wildes Constr. Co., 533 Park Rd., Waterloo, Iowa (B)

IOWA—Continued

Wildman, R. H., Constr. Co., 211 Kirkwood Ave., Iowa City, Iowa (B)
 Willy Constr. Co., 2160 Central Ave., Dubuque, Iowa (B)
 Wood, Earl R., Ainsworth, Iowa (B)
 Wood, Milo, & Son, W. 4th St., So., R. R. 4, Newton, Iowa (B)
 Zitterell-Mills Co., 607 Prospect St., Webster City, Iowa (B)
 Zwack, Anton, Inc., 1301 Central Ave., Dubuque, Iowa (B)

15. KANSAS

(a) KANSAS CHAPTER, BUILDERS DIVISION

President—Martin Dondlinger, Dondlinger & Sons Constr. Co., 1206 E. Lincoln, Wichita 1, Kans.
Manager & Executive Secretary—Kenneth R. Lewis, Suite 409, National Reserve Bldg., Topeka, Kans.
Telephone: 3-1814

Armogost, Walter, Constr. Co., 519 S. Broadway, Suite 10, Wichita, Kans. (B)
 Baumann, Geo. E., Box 495, Nevada, Mo. (B)
 Bennett Constr. Co., 114 Taylor St., Topeka, Kans. (B-Hvy)
 Blaser, Frank E., Bldg. Co., P. O. Box 112, 430 N. Rock Island, Wichita, Kans. (B)
 Borden, Val, Constr. Co., P. O. Box 883, Salina, Kans. (B)
 Bowers Constr. Co., Inc., 627 College Ave., Topeka, Kans. (B)
 Brenner & Myshka Co., Inc., 256 N. Waco, Wichita, Kans. (B)
 Busboom & Rauh, 109 E. Iron Ave., Salina, Kans. (B)
 Casson Constr. Co., 603 Topeka Blvd., Topeka, Kans. (B)
 Clark, Don, 1338 Mulvane, Topeka, Kans. (B)
 Constant Constr. Co., Inc., 2d & Perry, P. O. Box 126, Lawrence, Kans. (B-Hvy)
 Cowan, C. J., Constr. Co., 1150 Oakley, Topeka, Kans. (B)
 Dalton Constr. Co., 220½ W. 4th St., Joplin, Mo. (B)
 Davidson, Forest R., Constr. Co., P. O. Box 388, Norton, Kans. (B)
 Dondlinger & Sons Constr. Co., 1206 E. Lincoln, Wichita 1, Kans. (B)
 Douglas Constr. Co., 510 E. 15th St., Topeka, Kans. (B)
 Eby, Martin K., Constr. Co., Inc., 610 N. Main, Wichita 5, Kans. (B)
 English, N. F., Constr. Co., Inc., 601 E. 2d St., Hutchinson, Kans. (B)
 Fessler, Frank, 155½ N. Santa Fe, Salina, Kans. (B)
 Frank, J. S., 424 S. Phillips, Salina, Kans. (B)
 Frankenfeld Constr. Co., 1012½ Main St., Winfield, Kans. (B)
 Gehring, F. P., 214 N. 8th, Atchison, Kans. (B)
 Green, B. A., Constr. Co., P. O. Box 25, Lawrence, Kans. (B)

Green, Mont J., Ulrich Bldg., Manhattan, Kans. (B)
 Hahner & Foreman, Inc., 121 N. Waco, Wichita, Kans. (B)
 Hubbard, Roy, Constr. Co., 117-127 E. 6th, Junction City, Kans. (B)
 Jayhawk Constr. Co., Inc., 812 Adams St., Topeka, Kans. (B)
 Jensen & Ridge Constr. Co., Box 1918, Wichita 1, Kans. (B)
 Johnson Bros. Constr. Co., 407 Natl. Bk. of America, Salina, Kans. (B)
 Lundgren, J. A., & Son, 213 Jackson St., Topeka, Kans. (B)
 Messenger, A., Lbr. & Milwk. Constr. Co., The, 822 E. 4th St., Pittsburg, Kans. (B)
 Milligan, O. D., Constr. Co., Box 706, Manhattan, Kans. (B)
 Mitchell Constr. Co., The, 1830 E. Sunshine, P. O. Box 483, Springfield, Mo. (B-Hvy)
 Mitchell, E. J., Constr. Co., 117 W. Harvey Ave., Wellington, Kans. (B)
 Moreland Constr. Co., 140 Laura, Wichita 7, Kans. (B)
 Neely, John C., Constr. Co., 120 S. Topeka Ave., Wichita, Kans. (B)
 Noland Constr. Co., P. O. Box 407, Dodge City, Kans. (B)
 Rinner, George, Constr. Co., Inc., 4th & N. Lane, Shorey, Topeka, Kans. (B)
 Sell, F. H., Constr. Co., 422 N. Washington, Wichita, Kans. (B)
 Senne, George, & Co., P. O. Box 425, Topeka, Kans. (B)
 Smith Bros. Constr., 305 Cherokee, Leavenworth, Kans. (B)
 Smith & Moon, Courier Bldg., Winfield, Kans. (B)
 Soderberg, A. W., Constr. & Bldg. Co., 910 E. Indianapolis, Wichita 1, Kans. (B)
 Vollmer, Clarence E., Constr. Co., 840 N. Main St., Wichita, Kans. (B)
 Watson, M. W., 1004 Natl. Bk. of Topeka Bldg., Topeka, Kans. (B-Hvy)
 Wayland, John F., Washington, Kans. (B)
 Weller & Boucher Constr. Co., 1316 S. Mosley, Wichita 11, Kans. (B)
 Wilsam, Geo., 151 Garnett, Wichita, Kans. (B)

(b) KANSAS CONTRACTORS ASSOCIATION

President—C. E. Maxwell, The Maxwell Bridge Co., P. O. Box 348, Columbus, Kans.
Engineer-Secretary—J. W. Ballard, Hotel Jayhawk, Topeka, Kans.
Telephone: 3-2748

Aldridge, R. G., 1604 Nebraska Ave., Kansas City 2, Kans. (H-Hvy)
 Alsop, John, Wakefield, Kans. (H)
 Anderson Constr. Co., Holton, Kans. (H)
 Asplund Constr. Co., 309 E. Oak St., Enid, Okla. (H-Hvy)
 Atkinson, C. H., Paving Co., Chillicothe, Mo. (H-Hvy)
 Baker, G. W., 725 Wisconsin, Holton, Kans. (H)
 Baker, Roy, Ozawie, Kans. (H)
 Ballou, R. R., Constr. Co., E. Cloud St., Salina, Kans. (H)

Banta Constr. Co., Harper, Kans. (H)
 Barcus, L. G., & Sons, Inc., 1430 State Ave., Kansas City 2, Kans. (H)
 Bassett Constr. Co., Inc., 1313 W. 31st St., So., Wichita 12, Kans. (H)
 Benbow, Frank, 1303 High St., Wichita, Kans. (H)
 Bennett Constr. Co., 114 Taylor St., Topeka, Kans. (B-H-Hvy)
 Bennett, Geo., Constr. Co., 1520 Central Ave., Kansas City 2, Kans. (H-Hvy)
 Bennett, W. H., Constr. Co., 1310 State St., Kansas City 2, Kans. (H)
 Blacktop Surfacing Co., Emporia, Kans. (H)
 Blair Bros. Constr. Co., Quinter, Kans. (H)
 Blue River Sand & Gravel Co., Irving, Kans. (H)
 Broce Constr. Co., 214 S. 2d, Dodge City, Kans. (H)
 Broce & Smith, Inc., Box 711, Larned, Kans. (H)
 Brommer, O. G., Belleville, Kans. (H)
 Brosnahan, Earl F., 511 Grand Ave. Bk. Bldg., Kansas City 6, Mo. (B-H-Hvy)
 Brown Bros. Constr. Co., P. O. Box 745, Manhattan, Kans. (H)
 Brown & Brown, Inc., 715 E. Crawford, Salina, Kans. (H-Hvy)
 Brown, V. U., Constr. Co., Box L, Downs, Kans. (H)
 Burt & Binford, 507-15 W. 2d Ave., Hutchinson, Kans. (H-Hvy)
 C & H Constr. Co., 669 S. 10th St., Salina, Kans. (H)
 Carothers Constr. Co., Inc., Box 350, Paola, Kans. (H)
 Carter, W. B., Constr. Co., P. O. Box 2237, Wichita, Kans. (Hvy)
 Cement Asphalt Prods. Co., 410 N. Main St., Winfield, Kans. (H-Hvy)
 Clark Bros. Constr. Co., 614 S. 5th St., Leavenworth, Kans. (H)
 Clarkson Constr. Co., The, 4133 Gardner Ave., Box 4924, Sta. F, Kansas City 1, Mo. (H-RR)
 Coffey, Jas., 932 High Ave., Topeka, Kans. (H)
 Collins Constr. Co., P. O. Box 155, Leavenworth, Kans. (H)
 Concrete Materials & Constr. Co., Box 790, 405 Granby Bldg., Cedar Rapids, Iowa (H)
 Constant Constr. Co., Inc., 2d & Perry, P. O. Box 126, Lawrence, Kans. (B-H)
 Cook & Cone, 337 N. Dellrose St., Wichita 8, Kans. (H)
 Deer Landscape Co., Neodesha, Kans. (H)
 Dobson Bros. Constr. Co., 1st Natl. Bk. Bldg., Lincoln, Nebr. (H-Hvy)
 Douglas Bros., Inc., 510 E. 15th St., Topeka, Kans. (Hvy)
 English, N. F., Constr. Co., Inc., 601 E. 2d St., Hutchinson, Kans. (B-H-Hvy)
 Erickson Constr. Co., Assaria, Kans. (H)
 Forster, A. J., 408 S. Pearl St., Paola, Kans. (H)
 Freeto Constr. Co., Inc., The Natl. Bk. Bldg., Pittsburg, Kans. (H-Hvy)
 Frisbie, J. W., Railway Exch. Bldg., Kansas City 6, Mo. (H)

(Symbols following names indicate type of construction performed by company; B—Building; H—Highway; Hvy—Heavy; RR—Railroad.)

A.G.C. DIRECTORY

KANSAS—Continued

Geiger, E. W., Inc., 1st & Topeka Blvd., Box 799, Topeka, Kans. (H-Hvy)
 General Engr. Co., 1330 Western, Topeka, Kans. (H-Hvy)
 Globe Constr. Co., 1041 N. Water St., Wichita 5, Kans. (H-Hvy)
 Gray, C. E., Emporia, Kans. (H-Hvy)
 Griffin Constr. Co., 6000 Merriam Rd., Merriam, Kans. (H-Hvy)
 Grosshans & Petersen, Inc., Marysville, Kans. (H-RR)
 Grundeman Constr. Co., 415 E. 4th St., Holton, Kans. (H-Hvy)
 Hall Bros. Constr. Co., Marysville, Kans. (H)
 Hansen, D. G., Logan, Kans. (H-Hvy)
 Harper, L. F., 2412 Broadway, Great Bend, Kans. (H)
 Harrison Engr. & Constr. Corp., 4638 Mill Creek Pkwy., Kansas City 2, Mo. (H-Hvy)
 Hayes, L. W., Inc., 4550 Main St., Kansas City 2, Mo. (H)
 Henery, Harry, Inc., Ottawa, Kans. (H)
 Hites, L. V., Co., 214 Grand Ave. Bk. Bldg., Kansas City 8, Mo. (H)
 Hixon & Lehenbauer, 2300 Burnett Rd., Topeka, Kans. (H-Hvy)
 Hulme, Chas., 816 Main St., Great Bend, Kans. (H)
 Hunter, Ralph H., Constr. Co., Box 622, Hays, Kans. (H)
 Independent Constr. Co., P. O. Box 61, Overland Park, Kans. (H-Hvy)
 Inland Constr. Co., P. O. Box 1993, Wichita, Kans. (H-Hvy-RR)
 Jacobson, L. A., Box 130, Pauls Valley, Okla. (H)
 Kaw Paving Co., Inc., 1st St. & Topeka Ave., Topeka, Kans. (H-Hvy)
 Kiewit, Peter, Sons' Co., Munic. Airport P. O., Wichita 13, Kans. (B-H-Hvy-RR)
 Klaver & Wallace, Box 272, Kingman, Kans. (H)
 Koss Construction Company, 205 Farm Bureau Bldg., Des Moines 9, Iowa (H-Hvy-RR)
 Land Constr. Co., 1207 S. 4th St., St. Joseph 26, Mo. (H-Hvy)
 List & Clark Construction Company, 729 Railway Exch. Bldg., Kansas City 6, Mo. (H-Hvy-RR)
 List & Weatherly Constr. Co., 231 W. 47th St., Kansas City, Mo. (H-Hvy)
 Lytle-Amis-San Ore, Ellis, Kans. (H-Hvy)
 Marbut, T. F., Columbia Bldg., Emporia, Kans. (H)
 Maxwell Bridge Co., The, P. O. Box 348, Columbus, Kans. (H)
 McGlone, Perry, Constr. Co., 608 Grand Ave. Bk. Bldg., Kansas City 8, Mo. (H)
 Midwest Constr. Co., 701 Iowa, Holton, Kans. (H)
 Midwest Pre-Cote Co., 7600 E. 17th St., Kansas City 3, Mo. (H)
 Mission Equip. & Constr. Co., 6007 W. 61st St., Mission, Kans. (H)

Myers, Geo. M., Inc., P. O. Box 665, El Dorado, Kans. (H)
 O'Brien, W. F., St. Paul, Kans. (H)
 Penny, M. N., P. O. Box 131, Lawrence, Kans. (H)
 Popejoy, Glenn, Ulysses, Kans. (H)
 Purtzer & Dutton, Norton, Kans. (H)
 Reece Constr. Co., Scandia, Kans. (H-Hvy)
 Reinhardt Bros., Russell, Kans. (H)
 Reinhardt, Milton, & Son, Box 151, Russell, Kans. (H-Hvy)
 Reis, A. F., 702 Natl. Bk. of Topeka Bldg., Topeka, Kans. (H)
 Reno Constr. Co., Box 61, Overland Park, Kans. (H)
 Rexroad, L. W., & Son, Box 954, Salina, Kans. (H)
 Rhoades Constr. Co., Inc., 413½ Main St., Newton, Kans. (H)
 Ritchie Bros. Constr. Co., Box 2178, Wichita 1, Kans. (H)
 Rogers, H. A., & Sons, Lebo, Kans. (H)
 Rogers, Ira, 1267 Boswell, Topeka, Kans. (H-Hvy)
 Ross Sand Co., Concordia, Kans. (H)
 Sandford, N. Ralph, Hoisington, Kans. (H)
 San-Ore Constr. Co., McPherson, Kans. (H)
 Sargent Excavating Co., Inc., 812 Adams St., Topeka, Kans. (Hvy)
 Scherrer, Dan, Constr. Co., 903 N. 3d St., Kansas City 4, Kans. (H)
 Schmidt, Oscar H., Inc., 605 N. Tyler St., Topeka, Kans. (H)
 Schwartz, David, Russell, Kans. (H)
 Schweitzer, Adrian L., Osborne, Kans. (H)
 Shears, J. H., Sons, P. O. Box 227, Hutchinson, Kans. (H)
 Sherwood, A. G., Constr. Co., 829 N. Penn, Independence, Kans. (H)
 Sherwood Constr. Co., 619 N. Santa Fe St., Wichita 5, Kans. (Hvy)
 Small, M. M., 1619 W. 2d, Topeka, Kans. (H)
 Smith, Wm. A., Contr. Co., Inc., 1401 Fairfax Trafficway, Kansas City 15, Kans. (H)
 Stamey Constr. Co., 10 W. 21st St., Hutchinson, Kans. (B-H-Hvy-RR)
 Stannard Constr. Co., 519 S. Broadway, Suite 6, Wichita 2, Kans. (H-Hvy)
 Storms & Frew Constr. Co., 6601 E. 37th St., Kansas City 3, Mo. (H)
 Swenson Constr. Co., 3305 Terrace St., Kansas City 2, Mo. (B-H-Hvy)
 Taylor, H. J., Constr. Co., United Life Bldg., Salina, Kans. (H-Hvy)
 Tobin, J. A., Constr. Co., 3700 Rainbow Blvd., Kansas City 3, Kans. (H-Hvy)
 Utility Contrs., Inc., 610 N. Main St., Wichita 5, Kans. (Hvy)
 Vance Bros., 4923 Lawn Ave., Kansas City 4, Mo. (H)
 Walters Sand Co., Manhattan, Kans. (H)
 Watson, M. W., 1004 Natl. Bk. of Topeka Bldg., Topeka, Kans. (B-H-Hvy)
 Western Contracting Corporation, 400 Benson Bldg., Sioux City 15, Iowa (H-Hvy-RR)
 Young Constr. Co., 4209 St. Joseph Ave., St. Joseph, Mo. (H)
 Youngman, H. D., P. O. Box 166, Baxter Springs, Kans. (H-Hvy-RR)

16. KENTUCKY

(a) KENTUCKY HIGHWAY DIVISION

President—N. B. Edwards, Corum & Edwards, P. O. Box 112, Madisonville, Ky.
Vice President—J. R. Breeden, Lyons & Breeden, P. O. Box 209, Madisonville, Ky.
Executive Secretary—W. O. Snyder, New Capital Hotel, Frankfort, Ky.
Telephone: 448
 Adams, H. C., 968 Delaware Ave., Lexington, Ky. (H)
 Ambrosius Industries, Inc., 2791 S. Floyd St., Louisville 13, Ky. (H)
 Boone, S. J., 1520 Griffith Ave., Owensboro, Ky. (H)
 Breslin Constr. Co., Inc., 1801 S. Brook St., Louisville 8, Ky. (H)
 Cheek, Geo. H., Constr. Co., Inc., 300 McClure Bldg., Frankfort, Ky. (H)
 Codell Constr. Co., Inc., P. O. Box 17, Winchester, Ky. (H-Hvy-RR)
 Codell, M. T., & Co., Inc., 363 Crescent Ave., Winchester, Ky. (H-RR)
 Corum & Edwards, P. O. Box 112, Madisonville, Ky. (H-Hvy)
 Dawson, R. R., Bloomfield, Ky. (H-RR)
 Fuller-Davies Co., The, 1709 Union Trust Bldg., Cincinnati 2, Ohio (H)
 Gaddie, R. E., Inc., P. O. Box 343, Bowling Green, Ky. (H)
 Gorman Constr. Co., P. O. Drawer 151, Flemingsburg, Ky. (H)
 Hinkle Contr. Co., Box 147, Paris, Ky. (B-H)
 Kentucky-Virginia Stone Co., P. O. Drawer 137, Middlesboro, Ky. (H)
 Lehman-Roberts Co., 615 Citizens Bk. Bldg., Lexington 3, Ky. (H)
 Lovell & Hart Constr. Co., Box 1528, Lexington, Ky. (H)
 Lyons & Breeden, Box 209, Madisonville, Ky. (H)
 Middle States Bituminous Corp., Box 1071, Ashland, Ky. (H)
 Snider, W. C., 411 N. Maple Ave., Danville, Ky. (H)
 Strunk Constr. Co., Box 46, Somerset, Ky. (H)
 Talbot-Myers Constr. Corp., P. O. Box 231, Winchester, Ky. (H-Hvy-RR)
 Tye & Wells, Eminence, Ky. (H)
 Waters Constr. Co., P. O. Box 152, Elizabethtown, Ky. (H)
 Wood & Barton Co., 410 Ann St., Frankfort, Ky. (H)
 Wyse, Harry O., Versailles Pike, Rt. 2, Lexington, Ky. (H-Hvy)

(b) LOUISVILLE CHAPTER

President—John F. Nicoulin, Hays & Nicoulin, 939 Franklin St., Louisville 6, Ky.
Manager—D. R. Lyman, 120 E. Brandeis Ave., Louisville 8, Ky.
Telephone: Calhoun 2521
 Bickel, Henry, Co., Inc., 1020 E. Chestnut St., Louisville 4, Ky. (H-Hvy)
 Bornstein, Ale, Inc., 1219 Logan St., Louisville 4, Ky. (B)

KENTUCKY—Continued

Coupe, A. L., Constr. Co., 429 E. Woodbine Ave., Louisville 8, Ky. (B)
 Derby Constr. Co., Inc., 3000 Crittenden Dr., Louisville, Ky. (B-H)
 Eady, Geo. M., Co., 340 Byrne St., Louisville 8, Ky. (H-Hvy)
 Hays & Nicoulin, 939 Franklin St., Louisville 6, Ky. (B)
 Highland Co., 644 Baxter Ave., Louisville 4, Ky. (H)
 Jennings, J. D., Co., 235 E. Gaulbert St., Louisville 8, Ky. (B)
 Lichtefeld, Fred J., & Son, 989 Logan St., Louisville 4, Ky. (B)
 Louisville Asphalt Co., 240 E. Lee St., Louisville 8, Ky. (H)
 Mann Constr. Co., 422 E. Market St., New Albany, Ind. (B)
 Mueller, C. W., 619 Baxter Ave., Louisville 4, Ky. (B)
 Owens, F. W., Co., 119 N. 5th St., Louisville 2, Ky. (B)
 Platoff Constr. Co., 501 E. Woodbine Ave., Louisville 8, Ky. (B)
 Rommel, Geo. H., Co., 958 Logan St., Louisville 4, Ky. (B)
 Schickli, J. U., & Bros., 13th & Oak Sts., Louisville 10, Ky. (B-H-Hvy)
 Schneider, Al J., Co., 3720 7th St. Rd., Shively, Ky. (B)
 Skilton Engr. & Constr. Corp., 202 E. Bloom Ave., Louisville 8, Ky. (B)
 Steilberg, H. J., & Son, Box 13, Shively, Ky. (B)
 Struck Constr. Co., 147 N. Clay St., Louisville 2, Ky. (B)
 Sullivan & Cozart, 822 W. Kentucky St., Louisville 3, Ky. (B)
 Whittenberg Constr. Co., 2214 S. Floyd St., Louisville 8, Ky. (B)

Local Member

Ruby Constr. Co., Madisonville, Ky. (B-H-Hvy)

17. LOUISIANA**(a) NEW ORLEANS CHAPTER**

President—Henry Boh, Boh Bros. Constr. Co., 2400 Cypress St., New Orleans, La.
Managing Director—Sidney H. Walker, 434 Audubon Bldg., 931 Canal St., New Orleans 16, La.
Telephone: TULane 8401

A & O Bldrs., 3207½ Metairie Rd., New Orleans, La. (B)
 Andry & Voss, 503 Washington Ave., New Orleans, La. (B)
 B & Q Constr. Co., 511 N. Villere St., New Orleans 16, La. (B)
 Bartley & Binnings, 433 Gravier St., New Orleans, La. (B)
 Bernard & Byrd, 1539 Pleasure St., New Orleans 22, La. (B-Hvy)

Betpouey, Clement, Jr., & Co., 1432 Canal Bldg., New Orleans, La. (B-Hvy)
 Boh Bros. Constr. Co., 2400 Cypress St., New Orleans, La. (B-Hvy)
 Bott, C. N., P. O. Box 10127, Jefferson Br., 2551 Metairie Rd., New Orleans 21, La. (B)
 Brice Bldg. Co., Inc., 1021 2d Ave., No., Box 1028, Birmingham 1, Ala. (B)
 Butler, J. Samuel, 3809 Carondelet St., New Orleans 15, La. (B)
 Byrd & Bruns Bridge Co., Whitney Bldg., New Orleans 12, La. (Hvy)
 Corr, John L., Jr., 3718 Milan St., New Orleans 15, La. (B)
 Farnsworth & Chambers Co., Inc., P. O. Box 332, New Orleans, La. (B-H-Hvy)
 Farnsworth, R. P., & Co., Inc., 1515 S. Salcedo St., P. O. Box 850, New Orleans 2, La. (B-Hvy)
 Favret, Lionel F., 937 Gravier St., New Orleans 12, La. (B)
 Favrot, Gervais F., Co., 327 Balter Bldg., New Orleans 12, La. (B)
 Globe Constr. Co., Inc., 8137 Oleander St., New Orleans 18, La. (B)
 Glover, Geo. J., Co., Whitney Bldg., New Orleans 12, La. (B)
 Goldberg, A. N., Inc., 623 Maison Blanche Bldg., New Orleans 16, La. (B-H-Hvy)
 Haase Constr. Co., 822 Perdido St., New Orleans 12, La. (B)
 Hardy-Stevens Co., 226 Carondelet St., New Orleans, La. (B)
 Hogan Bros., Inc., 236 Focis St., New Orleans 20, La. (B-H-Hvy)
 Jensen, A., P. O. Box 5301, New Orleans, La. (B)
 Jones, J. A., Constr. Co., Inc., 209 W. 4th St., P. O. Box 966, Charlotte 1, N. C. (B-H-Hvy-RR)
 Keller Constr. Corp., 7930 Palm St., P. O. Box 439, New Orleans, La. (B-H-Hvy)
 Kelly-Generes Constr. Co., 134 Carondelet St., New Orleans 12, La. (B-Hvy)
 Kidde, Walter, Constrs., Inc., 140 Cedar St., New York 6, N. Y. (B)
 Larsen, Chris, Co., Maritime Bldg., New Orleans 12, La. (B)
 Lee, J. Gordon, 226 Carondelet St., New Orleans 12, La. (B)
 McCoy, Geo. W., & Co., Inc., 809 Central Ave., New Orleans 21, La. (B)
 McKee, Robt. E., P. O. Box 149, New Orleans 3, La. (B)
 O'Connor Oakes Co., 542 2d St., Gretna, La. (B)
 Perrilliat-Rickey Constr. Co., Inc., 1530 S. Rendon St., New Orleans 15, La. (B)
 Progressive Constr. Co., Inc., 240 Metairie Rd., Metairie, New Orleans 20, La. (B)
 Reilly, Michael H., 123 St. Patrick, New Orleans 19, La. (B)
 Riess, John, 226 Carondelet St., New Orleans 12, La. (B-Hvy)
 Sharp, Otis W., & Son, Inc., 5000 Saratoga St., New Orleans 15, La. (B)
 Spencer, C. B., 2350 Rousseau, New Orleans 13, La. (B)

(b) SHREVEPORT CHAPTER

President—W. A. McMichael, Jr., W. A. McMichael Constr. Co., 838-842 Hope St., P. O. Box 508, Shreveport, La.
Executive Secretary—C. H. Rollins, P. O. Box 1271, Shreveport, La.
Telephone: 2-8921

Allen Constr. Co., 3855 Dilg League Dr., P. O. Box 3044, Queensboro Sta., Shreveport, La. (B)
 Bellamy, J. H., 2432 Midway, Shreveport, La. (B)
 Brockhaus, Ed, 1911 Lake Shore Dr., Box 3325, Queensboro Sta., Shreveport, La. (B)
 Brown, J. M., Constr. Co., Inc., 1912 Spring St., P. O. Box 102, Shreveport, La. (B)
 Butler, Gerald C., 3834 Florence St., Shreveport, La. (B)
 Cottage Bldrs., Inc., 311 Highland Ave., Shreveport 50, La. (B)
 Furr, D. O., Constr. Co., 718 Edwards St., Shreveport, La. (B)
 General Constr. Co., 1417 Dalzell St., P. O. Box 1622, Shreveport, La. (B)
 Gilbert, F. O., Contr., Inc., 1128 Gilbert Dr., P. O. Box 5361, Bossier City, La. (B)
 Graham, P. A., 445 Wilder Pl., Shreveport, La. (B)
 Gray, W. A., Constr. Co., P. O. Box 626, 861 Grimmet Dr., Shreveport, La. (B)
 Harper & Florsheim, 224 Milam St., Shreveport, La. (B)
 Jones, J. A., Constr. Co., Inc., 354 Aero Dr., P. O. Box 1818, Shreveport, La. (B)
 Levasseur, A. J., Constr. Co., P. O. Box 3397, Queensboro Sta., Shreveport, La. (B)
 McClanahan, Fred C., & Son, 350 Elmwood St., Shreveport, La. (B)
 McMichael, W. A., Constr. Co., 838 Hope St., P. O. Box 508, Shreveport, La. (B)
 Neff, Robt. A., 802 Rutherford St., Shreveport, La. (B)
 Southern Bldrs., Inc., 201 Hunter Bldg., P. O. Box 1815, Shreveport, La. (B)
 Welch Constr. Co., 503 1st Natl. Bk. Bldg., Shreveport, La. (B)
 Werner Co., The, P. O. Box 908, Shreveport, La. (B)
 Whitaker, Guy C., 200 Texas Eastern Bldg., Shreveport, La. (B)

(c) LAKE CHARLES CHAPTER

President—A. M. Mutersbaugh, 602 Ann St., Lake Charles, La.
Secretary—Hudson East, Knapp & East, 2508 S. Ryan St., Lake Charles, La.
Treasurer—R. E. Managan, c/o Port City Constr. Co., Inc., 2007 S. Hodges St., Lake Charles, La.

Gipson, R. A., Constr. Co., Inc., 101 E. School St., Lake Charles, La. (B)
 House, Henry, 1617 Ford St., Lake Charles, La. (B)
 Knapp & East, 2508 S. Ryan St., Lake Charles, La. (B)
 Miller, T., & Sons, 10 Chavanne Bldg., Lake Charles, La. (B-Hvy)

(Symbols following names indicate type of construction performed by company; B—Building; H—Highway; Hvy—Heavy; RR—Railroad.)

LOUISIANA—Continued

Mutersbaugh, A. M., 602 Ann St., Lake Charles, La. (B-H-Hvy)
 Port City Constr. Co., Inc., 2007 S. Hodges St., Lake Charles, La. (B)
 Western Constr. Co., Inc., 1830 South St., Lake Charles, La. (B)
 Young, Emmett, Inc., P. O. Box 765, Lake Charles, La. (B)

(d) BATON ROUGE CHAPTER

President—Robert Thibodeaux, Jr., Robert Thibodeaux Co., Inc., P. O. Box 887, Baton Rouge 6, La.
Executive Secretary—T. B. Pugh, III, 402 Triad Bldg., Baton Rouge, La.
Telephone: 2-4979

Blanchard, Carver, 2876 Kalurah St., Baton Rouge, La. (B)
 Broussard, A. B., 2937 Greenwood Dr., P. O. Box 2047, Baton Rouge, La. (B)
 Buquet & LeBlanc, 544 Raymond Bldg., Baton Rouge, La. (B)
 C-B Constr. Co., P. O. Box 1967, 1045 Choc-taw Rd., Baton Rouge, La. (B)
 Caldwell & McCann, 310 Triad Bldg., Baton Rouge 6, La. (B)
 Carter, Chas., 1742 N. 21st St., Baton Rouge, La. (B)
 Eaton, L. W., Co., Inc., 209 Triad Bldg., P. O. Box 387, Baton Rouge 1, La. (B)
 Farnsworth, R. P., & Co., Inc., 440 N. Foster Dr., P. O. Box 2029, Baton Rouge, La. (B)
 King, J. M., 3538 Plank Rd., Baton Rouge 5, La. (B)
 Pioneer Contract & Supply Co., 2510 Government St., P. O. Box 200, Baton Rouge, La. (B)
 Spedale, L. A., 711 Richland Ave., Baton Rouge, La. (B)
 Thibodeaux, Robt., Co., Inc., 2834 Greenwood Dr., P. O. Box 887, Baton Rouge 6, La. (B)

(e) LOUISIANA HIGHWAY & HEAVY CONSTRUCTION BRANCH

President—O. C. Kirby, W. R. Aldrich & Co., P. O. Box 1751, Baton Rouge, La.
Manager—R. F. Scriber, 328 Hotel Louisiana Bldg., Baton Rouge 6, La.
Telephone: 4-4073

Aldrich, W. R., & Co., P. O. Box 1751, Baton Rouge, La. (B-H-Hvy)
 Allen, H. L., & Sons, Elton, La. (H-Hvy)
 Austin Bridge Co., P. O. Box 1590, Dallas, Texas (H)
 Barber Bros. Co., 2604 Dougherty Dr., P. O. Box 629, Baton Rouge, La. (H-Hvy)
 Campbell Constr. Co., Inc., Box 1758, Shreveport, La. (H-Hvy-RR)
 Carruth Contr. Co., 3170 Florida St., Baton Rouge, La. (H-Hvy)
 Dickerson & Bowen, P. O. Box 177, Brookhaven, Miss. (H-Hvy)
 Farnsworth, R. P., & Co., Inc., 1515 S. Salcedo St., P. O. Box 850, New Orleans, La. (B-H-Hvy)

Flenniken Constr. Co., P. O. Box 634, Shreveport, La. (H-Hvy)
 Goldberg, A. N., Inc., 623 Maison Blanche Bldg., New Orleans 16, La. (B-H-Hvy)
 Henry & Hall, Dubach, La. (H-Hvy)
 James, T. L., & Co., Inc., Box 531, Ruston, La. (H-Hvy)
 Johnston, A. P., P. O. Box 288, Baton Rouge, La. (B)
 Keller Constr. Corp., 7930 Palm St., P. O. Box 439, New Orleans, La. (H-Hvy)
 LeBlanc Bros., 702 Louisiana Natl. Bk. Bldg., Baton Rouge, La. (H-Hvy)
 Lilly, Roy M., Mansfield, La. (H-Hvy)
 Maxon Construction Company, Inc., 131 N. Ludlow St., Dayton 2, Ohio (Hvy)
 McDermott, J. Ray, & Co., Inc., P. O. Box 38, Harvey, La. (Hvy)
 Miller, T., & Sons, 10 Chavanne Bldg., Lake Charles, La. (B-Hvy)
 Netherton Co., P. O. Box 3368, Shreveport, La. (H)
 Patterson, W. H., & Co., P. O. Box 2229, Baton Rouge, La. (H-Hvy)
 Pohlman & Wilbanks, 310 Louisville Ave., Monroe, La. (B-Hvy)
 Pollard, M. E., 2011 E. Texas St., Bossier City, La. (H)
 Reynolds & Williams, P. O. Box 286, Shreveport, La. (H)
 Roland Constr. Co., P. O. Box 850, Alexandria, La. (B-H-Hvy)
 Texas Bitulithic Co., P. O. Box 8044, Gentilly Sta., New Orleans 22, La. (H)
 Tomlinson, T. R., Doyline, La. (H)
 Ward, O. J., Inc., 753½ Gladstone, Shreveport, La. (H-Hvy)
 Wells Contr. Co., P. O. Box 189, Natchitoches, La. (H-Hvy)

(f) CENTRAL LOUISIANA CHAPTER

President—R. J. Jones, R. J. Jones & Sons, 130 Wheelock Ave., P. O. Box 991, Alexandria, La.
Executive Secretary—S. P. Eggers, Jr., 2134½ Lee St., P. O. Box 4074, Alexandria, La.
Telephone: 6664

Alexandria Insulation Co., 34 Bolton Ave., Alexandria, La. (B)
 Angelle, Robt., Breaux Bridge, La. (B-H-Hvy)
 Brezner, Barnet, P. O. Box 654, Alexandria, La. (B)
 Bufkin & Rockhold, 76 McArthur Dr., P. O. Box 367, Alexandria, La. (B)
 Chaudoir, A. B., & Sons, 2721 Lee St., P. O. Box 1689, Alexandria, La. (B)
 City Lumber Co., Inc., 602 Monroe St., P. O. Box 89, Alexandria, La. (B)
 Eiland, Jas. A., Jr., Box 487, Bunkie, La. (B)
 Gossen Constr. Co., P. O. Box 818, Lafayette, La. (B)
 Gravier & Harper, P. O. Box 1391, Alexandria, La. (B)
 Gremillion, A. A., & Co., P. O. Box 1312, Alexandria, La. (B)
 Gremillion Bros., 1030 Washington St., Alexandria, La. (B)

Jones, R. J., & Sons, 130 Wheelock Ave., P. O. Box 991, Alexandria, La. (B-Hvy)
 Juneau, L. P., Rt. #21 Ransville, Alexandria, La. (B)
 Kaplan Constr. Co., 211 Albert St., P. O. Box SLI, Sta. I, Lafayette, La. (B)
 Kitchingham, J. D., & Son, Columbia, La. (B)
 Lamkin Bros. Constr. Co., 2703 Lee St., Alexandria, La. (B-H)
 Latimer & Rabalais, 100 Boyce Hwy., P. O. Box 1426, Alexandria, La. (B)
 Lemoine, S. J., & Co., P. O. Box 481, Bunkie, La. (B)
 Mouton, J. B., & Sons, 1225 St. John St., P. O. Box 862, Lafayette, La. (B)
 O'Brien, F. P., Inc., Box 469, Morgan City, La. (B)
 Quick, W. J., P. O. Box 349, New Iberia, La. (B-H-Hvy)
 Rabalais, E. E., & Son, P. O. Box 59, Bunkie, La. (B)
 Ratcliff, J. E., 1418 3d St., Box 1943, Alexandria, La. (B)
 Rickey, Horace B., Inc., Box 218, Lafayette, La. (B)
 Romero & Theall, Youngsville, La. (B)
 Tudor Constr. Co., 1284 Murray St., P. O. Box 1232, Alexandria, La. (B)
 Vernon Bldrs. & Contr. Co., P. O. Box 45, Leesville, La. (B)
 Weill Lumber Co., Abbeville, La. (B)

(g) NORTHEAST LOUISIANA CONTRACTORS' ASSOCIATION, INC.

President—A. B. McBride, McBride & Son, Inc., 120 E. Hickory, P. O. Box 46, Bastrop, La.
Secretary-Treasurer—G. O. Phillips, Ford, Bacon & Davis Constr. Corp., 805 S. Grand St., P. O. Box 1762, Monroe, La.
Executive Secretary—O. W. Brown, P. O. Box 612, Monroe, La.

Adams, C. R., Winnsboro, La. (B)
 Baxter, Don, Sicily Island, La. (B-H)
 Eiland, Edw. H., Box 790, Tallulah, La. (B)
 Ford, Bacon & Davis Construction Corp., 805 S. Grand St., Monroe, La. (B-Hvy)
 Garland Constr. Co., Ltd., P. O. Box 488, Rayville, La. (B)
 Gilbert Bros., 3040 DeSiard St., P. O. Box 1156, Monroe, La. (B)
 Harper, J. A., Crowley, La. (B)
 Haynes, W. G., 615 Cypress St., West Monroe, La. (B)
 Heard, Jesse F., & Son, Box 3566, West Monroe, La. (B)
 Humble & Humble, Cole Ave., Monroe, La. (B)
 Lincoln Bldrs., P. O. Box 51, Ruston, La. (B)
 Masling, Frank, & Son, 316 Catalpa St., Monroe, La. (B)
 McBride & Son, Inc., 120 E. Hickory, P. O. Box 46, Bastrop, La. (B)
 Rockhold & Rockhold, P. O. Box 638, Jonesboro, La. (B)

LOUISIANA—Continued

Salley, W. C., 511 Ouachita Bk. Bldg., P. O. Box 24, Monroe, La. (B-Hvy)
 Spier, L. C., 224 E. Madison St., Bastrop, La. (B)

Local Member

James, T. L., & Co., Inc., Box 531, Ruston, La. (H-Hvy)

18. MAINE**Local Member**

Stewart and Williams, Inc., 185 Water St., Augusta, Maine (B-H)

19. MARYLAND**(a) BALTIMORE BUILDERS CHAPTER**

President—Corbin C. Cogswell, Jr., The Cogswell Constr. Co., 513 Park Ave., Baltimore 1, Md.
Manager—Henry D. Romer, 104 W. Madison St., Suite 5A, Baltimore 1, Md.
Telephone: Mulberry 4285

Armiger Constr. Corp., 2127 Maryland Ave., Baltimore 18, Md. (B)
 Baltimore Contrs., 711 S. Central Ave., Baltimore 2, Md. (B-RR)
 Bickerton, W. E., Constr. Co., Inc., 101 W. 22d St., Baltimore 18, Md. (B)
 Brooklyn Engr. Corp., 1100 E. 25th St., Baltimore 18, Md. (B-Hvy)
 Cogswell Constr. Co., The, 513 Park Ave., Baltimore 1, Md. (B)
 Consolidated Engr. Co., Inc., 20 E. Franklin St., Baltimore 2, Md. (B)
 Costanza Constr. Co., The, 304 Vickers Bldg., 225 E. Redwood St., Baltimore 2, Md. (B)
 Cramer-Vollmerhausen Co., Inc., 31 S. Calvert St., Baltimore, Md. (B)
 Davis Constr. Co., The, 320 W. 24th St., Baltimore 11, Md. (B)
 Eyring, E., & Sons Co., 808 S. Conkling St., Baltimore 24, Md. (B)
 Frantz Constr. Co., The, 1115 E. 30th St., Baltimore 18, Md. (B)
 Koppers Co., Inc., Metal Prods. Div., 200 Scott St., P. O. Box 298, Baltimore 3, Md. (B-Hvy)
 Lawrence Constr. Co., Inc., 2503 St. Paul St., Baltimore 18, Md. (B)
 Leimbach Constr. Corp., 3906 Hickory Ave., Baltimore 11, Md. (B)
 Lynch, W. J., Co., 4801 Patterson Ave., Baltimore, Md. (B)
 Lyons, Wm. T., Co., Inc., The, 901 Tower Bldg., Baltimore 2, Md. (B-Hvy)
 Morrow Bros., Inc., 2315 N. Charles St., Baltimore 18, Md. (B)
 Piracci Constr. Co., Inc., 2552 Woodbrook Ave., Baltimore 17, Md. (B)
 Ruff, John K., Co., 100 W. 22d St., Baltimore 18, Md. (B)
 Smith, DeCorse & Christhilf, 5106 York Rd., Baltimore 12, Md. (B)

Steiner Constr. Co., 2122 Maryland Ave., Baltimore 18, Md. (B)
 Stewart, James, & Co., Inc., P. O. Box 6594, Sparrows Point 19, Md. (B)
 Vizzini, Philip, 504 Stamford Rd., Baltimore 29, Md. (B)
 Young & Adams, Inc., 2 W. 22d St., Baltimore 18, Md. (B)

(b) ASSOCIATED GENERAL CONTRACTORS OF MARYLAND

President—Earl C. Robertson, The Cumberland Contr. Co., P. O. Box 507, Cumberland, Md.
Secretary—J. Russell Schultz, 612 Highland Ave., Towson, Baltimore 4, Md.

Asphalt Service Co., 1299 Chesapeake Ave., Baltimore 25, Md. (H)
 B & W Constr. Co., Inc., 101 Hamilton Bk. Bldg., Baltimore 14, Md. (H)
 Baltimore Asphalt Block & Tile Co., 1320 N. Monroe St., Baltimore 17, Md. (H)
 Bester-Long, Inc., Hagerstown, Md. (H-Hvy)
 Brotemarkle, S. T., Constr. Co., P. O. Box 393, Cumberland, Md. (H-Hvy-RR)
 Campbell, Harry T., Sons' Corp., Towson 4, Md. (H-Hvy-RR)
 Cumberland Contr. Co., The, P. O. Box 507, Cumberland, Md. (H-Hvy-RR)
 Dutcher Constr. Corp., Queenstown, Md. (H-Hvy-RR)
 Eastern Highways Corp., P. O. Box 2738, Brooklyn 25, Md. (H)
 Empire Constr. Co., The, 31 S. Calvert St., Baltimore 2, Md. (H-Hvy-RR)
 Ensey, John H., 1611-19 Ridgely St., Baltimore 30, Md. (H)
 Flanagan, P., & Sons, Inc., 2405 Loch Raven Rd., Baltimore 18, Md. (H)
 Gibbons, Jas. Co., The, Sutton Ave., Relay 27, Md. (H-Hvy)
 Grove, M. J., Lime Co., Lime Kiln, Md. (H-Hvy)
 Hazelwood, Geo. F., Co., Inc., The, 36 Howard St., Cumberland, Md. (B-H-Hvy)
 Intercounty Constr. Corp., 4720 Baltimore Ave., Hyattsville, Md. (Hvy)
 Langenfelder, C. J., & Son, Inc., 8427 Pulaski Hwy., Baltimore, Md. (H-Hvy-RR)
 Mahoney Bros., 24 Knickerbocker Bldg., Baltimore 2, Md. (H)
 Mitchell, E. Stewart, Inc., 3301 Ridgewood Ave., Baltimore 15, Md. (H)
 National Paving & Contr. Co., Menlo Dr. & W.M.R.R., Baltimore 15, Md. (H)
 Potts & Callahan Constr. Co., 500 W. 29th St., Baltimore 11, Md. (H-Hvy)
 Russell, T. Edgie, Hamilton Ave., Frederick, Md. (H)
 Suburban Engr. & Constr. Co., P. O. Box 187, Branchville, Md. (H-Hvy-RR)
 Thomas, Bennett & Hunter, Inc., 70 John St., Westminster, Md. (H)
 Vandegrift, John I., Co., The, Liberty Trust Bldg., Cumberland, Md. (B)
 Williams Constr. Co., P. O. Box 145, Baltimore 20, Md. (H-Hvy-RR)

20. MASSACHUSETTS**(a) NEW ENGLAND MARINE CONTRACTORS CHAPTER**

President—Walter C. Cheever, Blakeslee Rollins Corp., 57 Taylor St., Neponset 22, Boston, Mass.
Secretary—Roy B. Rendle, Roy B. Rendle & Co., Inc., 364 Border St., East Boston 28, Mass.
Telephone: East Boston 7-0490

Bay State Dredg. & Contr. Co., 62 Condor St., East Boston 28, Mass. (Hvy)
 Beattie Corp., The, 209 Bedford St., Fall River, Mass. (B-Hvy)
 Blakeslee Rollins Corp., 57 Taylor St., Neponset 22, Boston, Mass. (Hvy)
 Buck-MacDonald Co., 88 Broad St., Boston 10, Mass. (Hvy)
 Crandall Engr. Co., 261 Franklin St., Boston 10, Mass. (Hvy-RR)
 Ellis, Wm. H., & Son Co., 479 Meridian St., East Boston 28, Mass. (Hvy)
 M. & R. Constr. Co., 139 Coleridge St., East Boston, Mass. (Hvy)
 McKie Lighter Co., 470 Atlantic Ave., Boston 10, Mass. (Hvy)
 Merritt-Chapman & Scott Corp., New London, Conn. (Hvy)
 Mohr, Henry, 31 St. James Ave., Boston 16, Mass. (Hvy)
 Rendle, Jas. B., Co., 1 Salem St., Malden 48, Mass. (Hvy)
 Rendle, Roy B., & Co., Inc., 364 Border St., East Boston 28, Mass. (Hvy)
 Seaboard Constr. Co., 201 Marginal St., Chelsea 50, Mass. (Hvy)
 Stuart, T., & Son Co., 70 Phillips St., Watertown 72, Mass. (Hvy-RR)

(b) ASSOCIATED GENERAL CONTRACTORS OF MASSACHUSETTS

President—Chas. B. Solomon, Geo. B. H. Macomber Co., Inc., 19 Milk St., Boston 9, Mass.
Executive Secretary—Allan E. Gifford, 73 Tremont St., Boston 8, Mass.
Telephone: Richmond 2-0400

Aberthaw Co., 80 Federal St., Boston 10, Mass. (B)
 Bailey, Wm. M., Co., 209 Washington St., Boston 8, Mass. (B)
 Barker, Walter H., Inc., 23 Main St., Taunton 12, Mass. (B-Hvy)
 Batson, C. A., Co., 26 Arlington St., Brockton, Mass. (B)
 Beacon Constr. Co., 102 Hano St., Allston 34, Mass. (B)
 Bennett, Jos. E., Co., Inc., 105 Newbury St., Boston 16, Mass. (B)
 Bennett-Stewart Co., Inc., 105 Newbury St., Boston 16, Mass. (B)
 Bond Bros., Inc., 77 Ferry St., Everett 49, Mass. (B)

(Symbols following names indicate type of construction performed by company; B—Building; H—Highway; Hvy—Heavy; RR—Railroad.)

A.G.C. DIRECTORY

MASSACHUSETTS—Continued

Bossi Constr., Inc., 43 Leon St., Boston 15, Mass. (B)
 Clark, Richard F., Co., 67 Rogers St., Cambridge 42, Mass. (B)
 Conti & Donahue, 239 Commercial St., Lynn, Mass. (B)
 Dwan Constr. Co., 29 Bay St., Dorchester 25, Mass. (B-Hvy)
 Eisenberg, Eugene R., Inc., 30 Huntington Ave., Boston 16, Mass. (B)
 Farina Bros., 429 Watertown St., Newton 58, Mass. (B-Hvy)
 Griffin, John F., Co., 238 Main St., Cambridge 42, Mass. (B)
 Harty Constr. Co., 25 Huntington Ave., Boston 16, Mass. (B)
 Hawkins, H. H., & Sons Co., 236 Washington St., Newton 58, Mass. (B)
 Hayes & Watkins Constr. Co., Inc., 12 Cottage St., Brockton, Mass. (B)
 Hew Constr. Co., 684 Washington St., Boston 11, Mass. (B)
 Horn Bros., Inc., 23 Miner St., Boston 15, Mass. (B)
 Hyndman, Earle L., 20 Beacon St., Boston 8, Mass. (B)
 Industrial Engr., Co., 145 Pinckney St., Boston 14, Mass. (B)
 Jacobucci, R. R., Inc., 28 Dayton St., Box 364, West Quincy 69, Mass. (B)
 Kelliher, Jas. S., 1230 Hancock St., Quincy 69, Mass. (B)
 Logue, Chas., Bldg. Co., 331 Newbury St., Boston 15, Mass. (B)
 Loranger, Theo., & Sons, 404 Nash Rd., New Bedford, Mass. (B-Hvy)
 Macomber, Geo. B. H., Co., Inc., 19 Milk St., Boston 9, Mass. (B)
 Maguire, Jos. T., Co., Inc., 140 Glenwood St., Lowell, Mass. (B-Hvy)
 Marden, Edw. R., Corp., 233 Harvard St., Brookline 46, Mass. (B)
 Martin, L., & Son, 17 Nassau St., Boston 11, Mass. (B)
 Martiniello, Louis, & Son, 49 Dighton St., Brighton 35, Mass. (B)
 Mozzicato Constr. Co., 168 Mystic Ave., Medford 55, Mass. (B)
 Mulcare, Thos., Corp., 66 Western Ave., Boston 34, Mass. (B-Hvy)
 Olson & Appleby, 222 Union St., New Bedford, Mass. (B)
 Pafford, Jas. M., Inc., 153 Main St., Falmouth, Mass. (B)
 Page Constr. Co., 20 Pemberton Sq., Boston 8, Mass. (B)
 Park Constr. Co., Inc., 40 Court St., Boston 8, Mass. (B)
 Parkman Constr. Co., Inc., 739 Boylston St., Boston 16, Mass. (B)
 Platt Contr. Co., Inc., 99 1st St., East Cambridge 41, Mass. (B-Hvy)
 Poley-Abrams Corp., 2 Elm Pl., Brookline Village 46, Mass. (B)
 Porter, Wm. H., Co., Inc., 84 Arsenal St., Watertown 72, Mass. (B)
 Potter-Horn, Inc., 1129 Statler Bldg., Boston 16, Mass. (B)
 Rappoli, Edmund J., Co., Inc., 515 Massachusetts Ave., Cambridge 39, Mass. (B)
 Ritchie, Walter L., 1 Salem St., Malden 48, Mass. (B)

Runels, R. E., Constr. Co., 515 Chalifoux Bldg., 24 Merrimack St., Lowell, Mass. (B)
 Sawyer Constr. Co., 31 St. James Ave., Boston 16, Mass. (B)
 Sciaba & Co., 86 Shawmut Ave., Boston 16, Mass. (B)
 Shuman Constr. Co., 32 Supple Rd., Boston 21, Mass. (B)
 Slotnick, M., Corp., 333 Washington St., Boston 8, Mass. (B)
 Slotnik, J., Co., 99 Chauncy St., Boston 11, Mass. (B)
 Smith, Jas. S., Co., Inc., 263 Washington St., Newton 58, Mass. (B)
 Sullivan-Foster, Inc., 43 William St., New Bedford, Mass. (B-Hvy)
 Thompson-Starrett Co., Inc., 201 Devonshire St., Boston 10, Mass. (B)
 Tocci Bros. Constr. Co., 38 Colonial Ave., Newtonville 60, Mass. (B)
 Tredennick-Billings Co., The, 10 High St., Boston 10, Mass. (B-Hvy)
 Turner Construction Co., 38 Newbury St., Boston 16, Mass. (B)
 Tuttle, Morton C., Co., 862 Park Sq. Bldg., Boston 16, Mass. (B)
 Vappi & Co., Inc., 240 Sidney St., Cambridge 39, Mass. (B)
 Vara Constr., Inc., 718 Huntington Ave., Boston 15, Mass. (B)
 Volpe Constr. Co., 54 Eastern Ave., Malden 48, Mass. (B)
 Volpe, S., & Co., Inc., 150 Congress St., Boston 10, Mass. (B)
 Wexler Constr. Co., Inc., 2 Elm Pl., Brookline 46, Mass. (B)
 White Constr. Co., 18 Tremont St., Boston 8, Mass. (B)
 White, Richard, Sons, Inc., 70-Crescent St., West Newton 65, Mass. (B-Hvy)
 Wile, Henry E., Co., 862 Walnut St., Newton Centre 59, Mass. (B)

Local Members

Bianchi, Carlo, and Company, Inc., 24 Union Ave., Framingham, Mass. (H-Hvy-RR)
 Cross, E. J., Company, 150 Prescott St., Worcester 5, Mass. (B)
 Cummings, H. P., Constr. Co., 14 Prospect St., Ware, Mass. (B-Hvy-RR)
 O'Connell's, Daniel, Sons, Inc., 480 Hampden St., Holyoke, Mass. (B-H-Hvy)

21. MICHIGAN

(a) DETROIT CHAPTER

President—Chas. H. Richert, J. A. Utley Co., Box 6, North End Sta., Detroit 2, Mich.
Secretary-Manager—Ralph A. MacMullan, 1437-8-9 Book Bldg., Detroit 26, Mich.
Telephone: Woodward 2-6297-8
 Albrecht, Albert A., Co., The, 1217 Penobscot Bldg., Detroit 26, Mich. (B)
 Atkin-Fordon Co., 7360 W. Chicago Ave., Detroit 4, Mich. (B)
 Auch, Geo. W., Co., 3646 Mt. Elliott Ave., Detroit 7, Mich. (B)

Barry Co., The, 19420 John R St., Detroit 3, Mich. (B)
 Barton-Malow Co., McKerchey Bldg., 2631 Woodward Ave., Detroit 1, Mich. (B)
 Bass Engr. & Constr. Co., Birmingham Theatre Bldg., Birmingham, Mich. (B-Hvy-RR)
 Birmingham Constr. Co., 208 Hanna Bldg., Birmingham, Mich. (B-Hvy)
 Bryant & Detwiler Co., 2304 Penobscot Bldg., Detroit 26, Mich. (B-Hvy-RR)
 Burke, O. W., Co., 1032 Fisher Bldg., Detroit 2, Mich. (B-Hvy)
 Cooley, John, Co., 509 Fox Bldg., Detroit 1, Mich. (B)
 Cooper, Frank N., Co., 3302 Gratiot Ave., Gratiot Sta., Detroit, Mich. (B)
 Couse, Walter L., & Co., 12740 Lyndon Ave., Detroit 27, Mich. (B-H-Hvy)
 Currie, Thos. E., Co., The, 2531 Conner Ave., Detroit 14, Mich. (H-Hvy)
 Darin & Armstrong, Inc., 2041 Fennell Ave., Detroit 3, Mich. (B-H-Hvy-RR)
 Denton Constr. Co., 7-170 General Motors Bldg., Detroit 2, Mich. (H)
 Esslinger, Wm., Constr. Co., 159 E. Columbia Ave., Detroit 1, Mich. (B)
 Faulkner Constr. Co., 1376 E. Bennett, Ferndale 20, Mich. (B)
 Fredman, J. A., 735 S. Paddock St., Pontiac 19, Mich. (B)
 HRC Constr. Co., 24518 Ecorse Rd., Inkster, Mich. (B)
 Hamer Bros., Inc., 317 Curtis Bldg., Detroit 2, Mich. (H-Hvy-RR)
 Industrial Constr. Co., 20515 Hoover Rd., Detroit 5, Mich. (B)
 Jutton-Kelly Co., 13240 Alber Ave., Dearborn, Mich. (Hvy-RR)
 Kaufmann, W. J. C., Co., 10610 Shoemaker Ave., Detroit 13, Mich. (B)
 Kuhlman, Leo E., Inc., 9716 Conner Ave., Detroit 5, Mich. (B)
 Kuhne-Simmons Co., Inc., 1300 Penobscot Bldg., Detroit 26, Mich. (B-Hvy)
 Kutsche, A. W., & Co., 2924 W. Grand Blvd., Detroit 2, Mich. (B)
 Leto Constr. Co., 15324 Mack Ave., Detroit 24, Mich. (B)
 Martens, Henry M., Co., 2111 Woodward Ave., Detroit 1, Mich. (B)
 Martin, F. H., Constr. Co., 955 E. Jefferson Ave., Detroit 7, Mich. (B)
 Misch, Arthur O., Co., 17731 Van Dyke Ave., Detroit 34, Mich. (B)
 Rogers, Chas. J., Inc., 14836 Grand River Ave., Detroit 27, Mich. (H-Hvy)
 Smith, Alfred A., 721 E. Saratoga Ave., Ferndale 20, Mich. (B-Hvy)
 Stibbard Constr. Co., 3000 Grand River Ave., Detroit 1, Mich. (B)
 Storen, W. J., Co., 2411 14th St., Detroit 16, Mich. (B-H-RR)
 Taylor, F. H., Co., 17360 Lahser Rd., Detroit 19, Mich. (B)
 Thompson-Schmidt Co., The, 18425 James Couzens Hwy., Detroit 21, Mich. (B)
 Utley, J. A., Co., Box 6, N. End Sta., Detroit 2, Mich. (B-H-Hvy-RR)
 Walbridge, Aldinger Company, 409 Griswold St., Detroit 26, Mich. (B-H-Hvy-RR)
 Wermuth, Inc., 1036 St. Mary's Ave., Fort Wayne 7, Ind. (B-Hvy)

MICHIGAN—Continued

Westphal, John C., Co., 12274 Coyle, Detroit 27, Mich. (B)
 Wood, W. E., Co., 4649 Humboldt Ave., Detroit 8, Mich. (B)

(b) MICHIGAN CHAPTER

President—Curt E. Bottum, Townsend & Bottum, Inc., 1791 S. State St., P. O. Box 368, Ann Arbor, Mich.
Secretary-Manager—George W. Combs, 127 N. Cedar St., Lansing 29, Mich.
Telephone: 2-1631

Alstrom Constr. Co., 22 W. Western Ave., Muskegon, Mich. (B)
 Barnes Constr. Co., 1310 Wallen Ave., S. W., Grand Rapids, Mich. (B)
 Beckering Constr. Co., 2140 Horton Ave., S. E., Grand Rapids 7, Mich. (B)
 Braun, Carl, & Son, 606 McBride St., Jackson, Mich. (B)
 Carpenter, Hugh J., & Sons, Inc., 410 Tussing Bldg., Lansing, Mich. (B)
 Christman Co., The, 408-410 Kalamazoo Plaza, Box 536, M. O., Lansing, Mich. (B-Hvy)
 Clark Constr. Co., Inc., 216 N. Bridge St., Grand Ledge, Mich. (B-Hvy)
 Corr, Francis J., Inc., 1120 Sheridan St., Lansing, Mich. (B)
 Datema, Geo., & Sons, 1560 Taylor Ave., N. E., Grand Rapids, Mich. (B)
 deKoning, Henry, Constr. Co., Municipal Court Bldg., Ann Arbor, Mich. (B)
 Elzinga & Volkers, 222 River Ave., Holland, Mich. (B)
 Foster, Karl B., 1015 S. Saginaw St., Flint, Mich. (B)
 Foster Schermerhorn Foster, Inc., 701 S. Holmes St., Lansing, Mich. (B)
 Granger Bros., 2702 S. Cedar St., Lansing 10, Mich. (B)
 Gregory-Roth-Schenker Corp., The, Empire State Bldg., New York, N. Y. (B)
 Heineman, J. R., & Sons, Inc., 1224 N. Niagara St., Saginaw, Mich. (B)
 Herlihy Mid-Continent Company, Box A, Comstock, Mich. (B-Hvy-RR)
 Kutchins & Brayton Co., 3112 Sablain Parkway, Lansing, Mich. (B)
 Miller-Davis Co., 1029 Portage St., Kalamazoo, Mich. (B-H-Hvy)
 Muskegon Constr. Co., 838 Jefferson St., P. O. Box 206, Muskegon, Mich. (B)
 North-Moller Co., 403 N. Jackson St., Jackson, Mich. (B-Hvy)
 Owen-Ames-Kimball Co., 38 Pearl St., N. W., Grand Rapids 2, Mich. (B-Hvy)
 Pearson Constr. Co., Inc., 240 W. Britain Ave., Benton Harbor, Mich. (B)
 Phelps-Wagner Bldrs., 731 Capital Ave., N. E., Battle Creek, Mich. (B)
 Reniger Constr. Co., Box 688, M. O., Lansing 3, Mich. (B-H-Hvy)
 Shoemaker, Frank L., 511 E. Main St., Sturgis, Mich. (B)
 Sorensen-Gross Constr. Co., 2505 Lapeer St., Flint, Mich. (B)
 Stevens, Ray, Co., The, 440 W. Ransom St., Kalamazoo, Mich. (B)

Strom Constr. Co., P. O. Box 86, 625 1st St., N. W., Grand Rapids, Mich. (B-Hvy)
 Strom & Strom, 1770 6th St., Muskegon, Mich. (B)
 Townsend & Bottum, Inc., 1791 S. State St., P. O. Box 368, Ann Arbor, Mich. (B-Hvy)
 Trier, Fred C., Constr. Co., Box 237, W. S., 1401 Brockway, Saginaw, Mich. (B)

(c) MICHIGAN ROAD BUILDERS ASSOCIATION

President—L. A. Davidson, 213 E. St. Joseph St., Lansing 15, Mich.
Executive Secretary—C. J. Carroll, 812 Olds Tower, Lansing, Mich.

A & A Asphalt Paving Co., 1045 Haynes St., Birmingham, Mich. (H)
 Alpine Constr. Co., Box 337, St. Ignace, Mich. (H)
 Ann Arbor Constr. Co., 221 Felch St., Ann Arbor, Mich. (B-H-Hvy-RR)
 Atletwed, F. C., Box 175, Rt. 2, St. Clair, Mich. (B-H-Hvy-RR)
 Ayling Asphalt & Paving Co., 306 College Ave., Adrian, Mich. (H)
 Bacco Constr. Co., Iron Mt. Home Furn. Bldg., Iron Mountain, Mich. (H-Hvy-RR)
 Barnes, Andrew T., Cass City, Mich. (H)
 Blue Water Excavating Co., 1821 Elmwood St., Port Huron, Mich. (H)
 Boyd, H. R., Co., Inc., 22285 Michigan Ave., Dearborn, Mich. (H-Hvy)
 Brady, E. P., & Co., 600 Citizens Bk. Bldg., Flint 3, Mich. (H)
 Bridges, C. G., Escanaba, Mich. (H-RR)
 Brighton & Wing, 21484 Karl St., Detroit, Mich. (H)
 Bryant & Detwiler Co., 2304 Penobscot Bldg., Detroit 26, Mich. (B-H-Hvy)
 Cadillac Asphalt Paving Co., 12490 Evergreen Rd., Detroit 23, Mich. (H-RR)
 Carothers & Dahlstrom, 830 W. Main St., Fremont, Mich. (H)
 Cheney, F. G., Williamston, Mich. (H)
 Comstock, Glenn A., P. O. Box 172, Bay City, Mich. (H)
 Cooke Contr. Co., The, 1116 Penobscot Bldg., Detroit 26, Mich. (B-H-Hvy)
 Couper, Wm. M., Co., 1408 Iroquois Ave., Ann Arbor, Mich. (H)
 Couse, Walter L., & Co., 12740 Lyndon Ave., Detroit 27, Mich. (H)
 Crossman-McCoy, Inc., Sodus, Mich. (H)
 Currie, Thos. E., Co., The, 2531 Conner Ave., Detroit 14, Mich. (H)
 Darin & Armstrong, Inc., 2041 Fenkell Ave., Detroit 3, Mich. (B-H-Hvy)
 Davidson, L. A., 213 E. St. Joseph St., Lansing 15, Mich. (H-Hvy-RR)
 Denton Constr. Co., 7-170 General Motors Bldg., Detroit 2, Mich. (H)
 Detroit Asphalt Paving Co., 702 Transportation Bldg., Detroit 26, Mich. (H)
 Drainage Contrs., Inc., 22148 Michigan Ave., Dearborn, Mich. (H-Hvy)
 Dyer, A. L., & Sons, McBrides, Mich. (H)
 East Shore Asphalt Paving Co., P. O. Box 181, Alpena, Mich. (H)
 Edison, L. W., 924 Floral Dr., S. E., Grand Rapids 6, Mich. (H)

Fitch-Eva Co., The, 223 W. Grand River Ave., Howell, Mich. (H)
 Flynn, T. P., & Co., 10314 Puritan Ave., Detroit 21, Mich. (H)
 Fox Valley Constr. Co., State Bk. Bldg., Appleton, Wis. (H)
 Frank, D. T., Constr. Co., 424 Clifton Blvd., East Lansing, Mich. (H)
 Frisinger, John H., Inc., 1400 Linwood Ave., Ann Arbor, Mich. (H)
 Frisinger, Max R., 1724 S. University Ave., Ann Arbor, Mich. (H)
 Fry & Kain, P. O. Box 456, Lansing 2, Mich. (H-Hvy)
 Garavaglia, Louis, 24240 Mound Rd., Centerline, Mich. (H-Hvy-RR)
 General Paving Constr. Co., 235 Union Ave., S. E., Grand Rapids 6, Mich. (H)
 Getman Bros., South Haven, Mich. (B-H-Hvy)
 Gilliland Constr. Co., Rt. 2, Alpena, Mich. (H)
 Gillisse, John & Paul, Grandville, Mich. (H)
 Globe Constr. Co., 312 Peck Bldg., Kalamazoo, Mich. (H)
 Gooding, O. E., & Co., 125 N. Normal St., Ypsilanti, Mich. (H)
 Goodwin, Carl, & Sons, 500 Delano St., Allegan, Mich. (H-RR)
 Gould & Cross, 3849 Three Mile Rd., N. E., Grand Rapids, Mich. (H)
 Graft, E. W., Constr. Co., 2870 Harrison St., Saginaw, Mich. (H)
 Grand Rapids Asphalt Paving Co., 341 Market Ave., S. W., Grand Rapids 3, Mich. (H)
 Harris-McBurney Co., 297 W. Michigan Ave., Jackson, Mich. (H)
 Harvie, Wm. H., 28450 Santa Barbara Dr., Birmingham 21, Mich. (H)
 Hertel & Deyo Co., 5205 Division Ave., So., Grand Rapids 8, Mich. (H-Hvy)
 Hicks Co., The, 630 E. Superior St., Alma, Mich. (H)
 Hobeck, J. W., R.F.D. #1, Holland, Mich. (H)
 Hodgkiss & Douma, Box 311, Petoskey, Mich. (B-H-Hvy-RR)
 Houghton Excavating Co., Beulah, Mich. (H)
 Hull, Clarence A., Dryden, Mich. (H-Hvy-RR)
 Jackson, John K., Rt. 2, Box 390, Ironwood, Mich. (H)
 Jarvick, E., Constr. Co., 18285 Littlefield, Detroit 35, Mich. (H)
 Johnson-Greene Co., 616 Ann Arbor Trust Bldg., Ann Arbor, Mich. (H-Hvy)
 Jutton-Kelly Co., 13240 Alber Ave., Dearborn, Mich. (H-Hvy-RR)
 Kalkman, Neil & Al, Constr. Co., 673 Central Ave., Holland, Mich. (H)
 Kebbe, Ray, Warren, Mich. (H)
 Knapp, Walter, Box 593, Monroe, Mich. (H-Hvy-RR)
 Lamb, L. W., Co., 1025 S. Shore Dr., Holland, Mich. (H-Hvy-RR)
 Leffer, A. S., Gravel Co., 112 S. State St., Davison, Mich. (H)
 Leonard Constr. Co., 315 Miller St., Saginaw, Mich. (H)

(Symbols following names indicate type of construction performed by company; B—Building; H—Highway; Hvy—Heavy; RR—Railroad.)

A.G.C. DIRECTORY

MICHIGAN—Continued

Lewis & Frisinger Co., The, 214 E. Madison St., Ann Arbor, Mich. (B-H-Hvy-RR)
 Lindberg, A., & Sons, Ishpeming, Mich. (H-Hvy-RR)
 Loomis, C. M., 415 Murray Bldg., Grand Rapids 2, Mich. (H)
 Loselle Constr. Co., Box 1001, Wyandotte, Mich. (H)
 Luedtke Engr. Co., Box 111, Frankfort, Mich. (H-Hvy)
 Maclean Constr. Co., 706 E. Sheridan St., Lansing 6, Mich. (H)
 McNally Constr. Co., 2809 Maplewood, Saginaw 38, Mich. (H-Hvy)
 McNally, W. F., Co., 2522 Hess St., Saginaw, Mich. (H)
 Meagher, W. J., & Sons, 24th & Water Sts., Bay City, Mich. (H-Hvy-RR)
 Meyer, Robt. Wm., 622 E. Chapin St., Cadillac, Mich. (B-H)
 Mid-America Engr. Corp., 4922 Dempster St., Skokie, Ill. (H)
 Midland Constr. Co., 145 Rodd St., Midland, Mich. (H)
 Miller, Paul C., 101 N. Park St., Comstock Park, Mich. (H)
 Muehlenbeck, Wm. J., 1253 S. Water St., Saginaw, Mich. (H-Hvy-RR)
 Nagelkirk & Ranta, 2550 Chicago Dr., S. W., Grand Rapids 9, Mich. (H)
 Nolan, E. C., Co., 8121 Warren Blvd., Centerline, Mich. (H-RR)
 Oak Constr. Co., 220 E. 7th St., Royal Oak, Mich. (B-H-Hvy-RR)
 Payne & Dolan of Wisconsin, Inc., 1138 1st Wisconsin Natl. Bk. Bldg., Milwaukee 2, Wis. (H)
 Pickitt, Harry, 409 Hubbard St., Allegan, Mich. (H)
 Pierson Constr. Co., 609 Eddy Bldg., Saginaw, Mich. (H)
 Plozai, Jos., Inc., 4329 Central Ave., Detroit 10, Mich. (Hvy)
 Porath, Julius, & Son Co., 702 Transportation Bldg., Detroit 26, Mich. (H)
 Posthumus, Gerritt, 35456 Van Born Rd., Wayne, Mich. (H)
 Proksch Constr. Co., Iron River, Mich. (B-H-Hvy-RR)
 Raff & Dexter, 210 W. Greenlawn, Lansing 10, Mich. (H)
 Rieth-Riley Constr. Co., P. O. Box 477, W. Madison St., Goshen, Ind. (H)
 Rogers, Chas. J., Inc., 14836 Grand River Ave., Detroit 27, Mich. (H-Hvy)
 Sablain, Ray, 2827 S. Cedar St., Lansing 9, Mich. (H)
 Sachs & Kaufman, 724 Lafayette Bldg., Detroit 26, Mich. (H)
 Sargent, B. H., 310 W. Houghton Ave., West Branch, Mich. (H-Hvy-RR)
 Sargent Constr. Co., 2840 Bay Rd., Saginaw, Mich. (B-H-Hvy-RR)
 Schwaderer, E. B., & Co., P. O. Box 157, Cass City, Mich. (H)
 Schworm, Ivan W., Peninsula Shores Park, Grawn, Mich. (H)
 Shingledecker, H. C., 34 Dakota St., Pontiac, Mich. (H)
 Storen, W. J., Co., 2411 14th St., Detroit 16, Mich. (H-Hvy)

Straits Constr. Co., 1st Natl. Bk. Bldg., St. Ignace, Mich. (H)
 Taber-Carmody Co., 125 Front Ave., N. W., Grand Rapids 4, Mich. (H-RR)
 Taylor Bros. Co., Inc., 985 Haynes St., Birmingham, Mich. (H)
 Terry & Steadman, Inc., P. O. Box 215, Bay City, Mich. (H-Hvy-RR)
 Thornton Constr. Co., 1028 Ethel Ave., Hancock, Mich. (H)
 Toebe, Walter, & Co., P. O. Box 761, Lansing 3, Mich. (H-Hvy)
 Vander Veen, E. J., 2910 Plainfield Ave., Grand Rapids 5, Mich. (H)
 Vander Veen, P., & Sons, 2020 Newark, S. E., Grand Rapids 7, Mich. (H)
 Vinton Constr. Co., Coldwater, Mich. (H)
 Walser, John F., 3821 Pontiac Lake Rd., Pontiac, Mich. (H)
 Weir Constr. Co., 12592 Inkster Rd., Detroit 28, Mich. (H)
 West Shore Constr. Co., Zeeland, Mich. (H)
 Whitehead, I. L., Co., 1107 W. Easterday Ave., Sault Ste. Marie, Mich. (H)
 Wright Constr. Co., Williamston, Mich. (H-Hvy)
 Yerington, John G., Territorial Rd., R.F.D. #2, Benton Harbor, Mich. (H)

(d) UPPER PENINSULA MICHIGAN CHAPTER

President Pro Tem—Herman Gundlach, Herman Gundlach, Inc., Houghton, Mich.
Secretary-Treasurer Pro Tem—Robert E. Dodd, Cox-Dodd Constr. Co., P. O. Box 412, Sault Ste. Marie, Mich.

Arntzen, Erling, 1524 8th Ave., Escanaba, Mich. (B)
 Brandt, Alfred, 705 S. 14th St., Escanaba, Mich. (B)
 Champion, Inc., Constr. Div., P. O. Box 231, Iron Mountain, Mich. (B)
 Cox-Dodd Constr. Co., P. O. Box 412, Sault Ste. Marie, Mich. (B)
 Gundlach, Herman, Inc., Houghton, Mich. (B)
 Kaysner Constr. Co., 711 W. Spruce St., Sault Ste. Marie, Mich. (B)
 Kielinen & Sons, 411 E. Pearl St., Ishpeming, Mich. (B)
 MacDonald & Kaake, Inc., 825 W. Washington St., Marquette, Mich. (B)
 Menze, Franz, 208 Hampton St., Marquette, Mich. (B)
 Salen, Albert H., 1609 16th Ave., Menominee, Mich. (B)

22. MINNESOTA

(a) ASSOCIATED GENERAL CONTRACTORS OF MINNESOTA

President—John Dieseth, John Dieseth Co., Fergus Falls, Minn.
Manager—R. J. Hendershott, 910 Builders Exch. Bldg., Minneapolis 2, Minn.
Telephone: Atlantic 0804
 Eian & Ness, 407 Stanton Ave., Fergus Falls, Minn. (B)
 Eickhof, Otto J., & Sons, Inc., Crookston, Minn. (B)

Fowler-Veranth Constr. Co., 303 S. 1st Ave., Duluth 2, Minn. (B)
 Hasslen Constr. Co., Inc., Ortonville, Minn. (B)
 Helmer, Stanley S., 713 3d Ave., E., Grand Rapids, Minn. (B)
 Home Bldrs. Co., St. Cloud, Minn. (B)
 LaFond, Marcel, 615 1st St., S. E., Little Falls, Minn. (B)
 Larson Constr. Co., Pelican Rapids, Minn. (B)
 Lenci, Lenci & Englund, Inc., 1021 2d Ave., So., Virginia, Minn. (B)
 Nasvik Constr. Co., Northern Natl. Bk. Bldg., Bemidji, Minn. (B)
 Rowe, Dan, 909 W. Main St., Marshall, Minn. (B)
 Stavn, H. L., Co., Inc., 2521 1st Ave., Hibbing, Minn. (B)

(Minneapolis Builders Division)

Adams Constr. Co., 2837 Girard Ave., So., Minneapolis 8, Minn. (B)
 Anderberg, O. R., Co., 2923 Oakland Ave., So., Minneapolis 7, Minn. (B)
 Bass, Jos. A., Co., 332 Sexton Bldg., Minneapolis 15, Minn. (B)
 Cederstrand, August, Co., 966 Central Ave., Minneapolis 13, Minn. (B)
 Comb, Fred R., Co., 2113 Chicago Ave., Minneapolis 4, Minn. (B)
 Cook, Geo. F., Constr. Co., 2833 Lyndale Ave., So., Minneapolis 8, Minn. (B)
 Crawford, J. W., Co., 2316 4th Ave., So., Minneapolis 4, Minn. (B)
 Dean Constr. Co., 712 Metropolitan Bldg., Minneapolis 1, Minn. (B)
 Field, C. O., Co., 2940 Harriet Ave., Minneapolis 8, Minn. (B)
 Fleisher Engr. & Constr. Co., 1250 Builders Exch. Bldg., Minneapolis 2, Minn. (B)
 Ganley, Ernest M., Co., Inc., 2922 Oakland Ave., Minneapolis 7, Minn. (B)
 General Service, Inc., 602 Thorpe Bldg., Minneapolis 2, Minn. (B)
 Giersten, Walter D., Co., 900 Glenwood Ave., Minneapolis 5, Minn. (B-H)
 Haglin, C. F., & Sons, Co., 123 Bryant Ave., No., Minneapolis 3, Minn. (B)
 Jensen Constr. Co., P. O. Box 965, Richfield Br., Minneapolis 19, Minn. (B)
 Johnson, C. O., Constr. Co., 650 Builders Exch. Bldg., Minneapolis 2, Minn. (B)
 Knutson Constr. Co., 3000 E. Hennepin Ave., Minneapolis 13, Minn. (B)
 Kraus-Anderson, Inc., 501 S. 8th St., Minneapolis 15, Minn. (B)
 Laurence, Paul A., Co., 416 Builders Exch. Bldg., Minneapolis 2, Minn. (B)
 Lebeck & Co., 540 Baker Bldg., Minneapolis 2, Minn. (B)
 Leck, D'Arcy, Constr. Co., 2838 Stevens Ave., Minneapolis 8, Minn. (B)
 Leck, Jas., Co., 211 S. 11th St., Minneapolis 2, Minn. (B)
 Leighton, H. N., Co., 716 S. 7th St., Minneapolis 15, Minn. (B)
 Libbey & Libby Co., 244 2d Ave., So., Minneapolis 1, Minn. (B)
 Madsen Constr. Co., 2110 Nicollet Ave., Minneapolis 4, Minn. (B)
 McKenzie-Hague-Simmons Co., 1116 Flour Exch. Bldg., Minneapolis 15, Minn. (B)

MINNESOTA—Continued

Midwest Contr. Co., 2944 17th Ave., So., Minneapolis 7, Minn. (B)
 Naugle-Leck, Inc., 714 Baker Bldg., Minneapolis 2, Minn. (B)
 Northwestern Constr. Co., 2710 Nicollet Ave., Minneapolis 8, Minn. (B)
 Peterson Constr. Co., 620 National Bldg., Minneapolis 2, Minn. (B)
 Rohr Housing Corp., Westwood Hills Rd., Minneapolis 19, Minn. (B)
 Splady & Haagenen, 1302 5th Ave., So., Minneapolis 4, Minn. (B)
 Stahr Co., The, 239 Foshay Tower, Minneapolis 2, Minn. (B)
 Standard Constr. Co., Inc., 250 Builders Exch. Bldg., Minneapolis 2, Minn. (B)
 Watson, Fred O., Co., 404 Baker Bldg., Minneapolis 2, Minn. (B)
 Witcher, Dean L., Inc., 542 Builders Exch. Bldg., Minneapolis 2, Minn. (B)

(St. Paul Builders Division)

Baumeister, Wm., Constr. Co., 635 Hamm Bldg., St. Paul 2, Minn. (B)
 Fridholm Constr. Co., 1795 St. Clair Ave., St. Paul 5, Minn. (B)
 Fuel Economy Engr. Co., 508-512 New York Bldg., St. Paul 1, Minn. (B)
 Hurley, Gene, Constr. Co., 403 S. Robert St., St. Paul 7, Minn. (B)
 Jensen, Chris, Co., 1385 Selby Ave., St. Paul 4, Minn. (B)
 Johnson, Jos. E., & Son, 477 Selby Ave., St. Paul 2, Minn. (B)
 Kraus-Anderson of St. Paul Co., 200 Ramsey St., St. Paul 2, Minn. (B)
 Lindstrom & Anderson, 924 Raymond Ave., St. Paul 4, Minn. (B)
 Lovering Constr. Co., 616 Guardian Bldg., St. Paul 1, Minn. (B)
 Murphy, Wm., & Son, 428 New York Bldg., St. Paul 1, Minn. (B)
 Petersen, Lawrence, Constr. Co., 867 N. Dale St., St. Paul 3, Minn. (B)
 Sauers Constr. Co., Inc., 1255 W. Larpenteur Ave., St. Paul 8, Minn. (B)
 Shelgren, Roy A., 2102 Wabash Ave., St. Paul 4, Minn. (B)
 Steenberg Constr. Co., Inc., 1371 Marshall Ave., St. Paul 4, Minn. (B)
 Sweitzer, J. S., & Son, Inc., 739 Pillsbury Ave., St. Paul 4, Minn. (B)
 Turner Construction Co., 747 Prior Ave., No., St. Paul 4, Minn. (B)

(Southern Minnesota Builders Division)

Benike, Alvin E., 330 3d Ave., N. W., Rochester, Minn. (B)
 Jensen, Viggo M., Co., P. O. Box 68, Albert Lea, Minn. (B)
 Johnson Constr. Co., 677 Main St., Winona, Minn. (B)
 Neitge, Ben, Constr. Co., 414 Cornelia St., Mankato, Minn. (B)
 Pagenhart, C. C., 217½ S. Broadway, Rochester, Minn. (B)
 Petersen, N. A., Constr. Co., 401 S. 3d St., Austin, Minn. (B)

Schroeder, Paul, 915 4th Ave., Faribault, Minn. (B)
 Schwab, P. Earl, 166 W. 2d St., Winona, Minn. (B)
 Stocke & Olson, 115½ 3d St., S. W., Rochester, Minn. (B)
 Wagner Constr. Co., 406 S. Burr Oak Dr., Austin, Minn. (B)

(Municipal Contractors Division)

Barbarossa & Sons, Inc., 402 33d Ave., No., St. Cloud, Minn. (Hvy)
 Bonander & Co., 1420 Washington Ave., So., Minneapolis 4, Minn. (Hvy)
 Casper-Lyons Co., Grand Rapids, Minn. (Hvy)
 Donnelly, I. J., Constr. Co., 612 Drake St., St. Paul 2, Minn. (Hvy)
 Eby-Johnson Co., Starbuck, Minn. (B)
 Fraser, Carlisle C., 506 N. Prior Ave., St. Paul 4, Minn. (Hvy)
 Jacobs, M. J., & Sons, Bird Island, Minn. (Hvy)
 Lametti & Lametti, Inc., 615 Drake St., St. Paul 2, Minn. (Hvy)
 McNulty, L. J., Inc., 2001 Wentworth Ave., South St. Paul, Minn. (Hvy)
 Nagel, J. J., Perham, Minn. (Hvy)
 Nodland-Alberg Co., Alexandria, Minn. (Hvy)
 Phelps-Drake Co., Inc., 1415 8th St., S. E., Minneapolis 14, Minn. (Hvy)
 Sandstrom & Hafner, 740 E. Superior St., Duluth, Minn. (Hvy)
 Wolff, DeGraff, 2360 University Ave., St. Paul 4, Minn. (Hvy)

(Highway and Heavy Construction Divisions)

Alexander Constr. Co., 4641 Hiawatha Ave., Minneapolis 6, Minn. (H)
 Alley, A. L., & Son, Box 387, Faribault, Minn. (H)
 Ashbach, Otto B., & Sons, Inc., 2975 Hamline Ave., No., St. Paul 8, Minn. (H)
 Ashworth & Son Co., 3601 Alabama Ave., Minneapolis 16, Minn. (H)
 Barnes-Mattison, Inc., 1230 Metropolitan Life Bldg., Minneapolis 1, Minn. (Hvy)
 Benson, Roy, & Son, Stephen, Minn. (H)
 Biwabik Gravel Co., Inc., 621 9th St., No., Virginia, Minn. (Hvy)
 Blattner, D. H., & Sons, Albany, Minn. (H)
 Bolander, Carl, & Sons Co., 2933 Pleasant Ave., Minneapolis 8, Minn. (H)
 Bolduc, L. H., & Co., 3050 4th Ave., So., Minneapolis 8, Minn. (H)
 Collins, Wm., & Sons, Inc., 514 Black Bldg., Fargo, N. Dak. (H)
 Coons, E. W., Co., Inc., P. O. Box 239, Hibbing, Minn. (H-Hvy)
 Craig, Jay W., Co., 1814 N. E. California St., Minneapolis 13, Minn. (H)
 DeRuyter Bros., 1123 Trott Ave., W., Willmar, Minn. (H)
 Dieseth, John, Co., Fergus Falls, Minn. (H)
 Duinick Bros. & Gilchrist, Olivia, Minn. (H)
 Farrell Constr. Co., 1607 Wynne Ave., St. Paul 4, Minn. (H)
 Fegles Constr. Co., Ltd., 711 Wesley Temple Bldg., Minneapolis 4, Minn. (B-Hvy)
 Feller, L. M., Co., Rochester, Minn. (H)
 Fielding & Shepley, Inc., 1258 Bohn Ave., St. Paul 4, Minn. (H-Hvy)
 Foley Brothers, Inc., 900 New York Bldg., St. Paul 1, Minn. (B-H-Hvy)
 Freeman Constr. Co., Inc., Spring Valley, Minn. (H)
 Ganley, Howard, Inc., 2336 Hampden Ave., St. Paul 4, Minn. (H)
 Groves, Lundin & Cox, Inc., 310 Wesley Temple Bldg., Minneapolis 4, Minn. (Hvy)
 Groves, S. J., & Sons Co., 500 Wesley Temple Bldg., Minneapolis 4, Minn. (H-Hvy)
 Haagenen & Tranby, McIntosh, Minn. (H)
 Haggart Constr. Co., The, Box 1310, Fargo, N. Dak. (H)
 Hallett Constr. Co., Crosby, Minn. (H-Hvy)
 Haugen & Mark, Fergus Falls, Minn. (H)
 Hector Constr. Co., Inc., Hector, Minn. (H)
 Helseth Engr. Co., 1380 W. County Rd. C, St. Paul 8, Minn. (H)
 Herbison Constr. Co., Brainerd, Minn. (H)
 Hodgman, W., & Sons, K. of C. Bldg., Fairmont, Minn. (H)
 Industrial Contr. Co., 3050 S. 4th Ave., Minneapolis 8, Minn. (H)
 Jeffries Constr. Co., Rt. 1, Mankato, Minn. (H)
 Johnson, Al Construction Co., 606 Foshay Tower, Minneapolis 2, Minn. (H-Hvy)
 Johnson Constr. Co., Litchfield, Minn. (H)
 Johnson, Drake & Piper, Inc., 1138 Baker Bldg., Minneapolis 2, Minn. (B-H-Hvy-RR)
 Joyce, Leon, 220½ 1st Ave., S. W., Rochester, Minn. (H)
 Klehr, L. M., Constr. Co., Inc., 1502 Nicollet Ave., Minneapolis 4, Minn. (H)
 Magee, W. W., Co., 1397 Laurel Ave., St. Paul 4, Minn. (B-H-Hvy)
 McCree & Co., 918 New York Bldg., St. Paul 1, Minn. (H-Hvy-RR)
 Nelson, C. L., & Co., Inc., 510 N. Bluff, Brainerd, Minn. (H)
 Nelson, Mullen & Nelson, Inc., 355 Gateway Bldg., Minneapolis 1, Minn. (Hvy)
 Nelson, Mullen & Webster, 355 Gateway Bldg., Minneapolis 1, Minn. (H)
 New London Materials & Constr. Co., Carlson Bldg., Willmar, Minn. (Hvy)
 Noel, W. H., Co., Box 1390, Jamestown, N. Dak. (H)
 Northern Improvement Co., Fargo, N. Dak. (H)
 Okes Constr. Co., E. 1501 1st Natl. Bk. Bldg., St. Paul 1, Minn. (H-Hvy)
 O'Loughlin & Hansen, 218 1st Ave., S. W., Rochester, Minn. (H)
 Park Constr. Co., 1405 11th Ave., So., Minneapolis 4, Minn. (H)
 Pedersen Bros., Inc., Montevideo, Minn. (H)
 Pederson, P. O., Inc., 116 W. 78th St., Minneapolis 9, Minn. (H)
 Peterson, Conrad O., Canby, Minn. (H)
 Purtell, Harold, Constr. Co., 317 Hamm Bldg., St. Paul 2, Minn. (H-Hvy)
 Reese, Herbert, Greenbush, Minn. (H)
 Sculley, C. F., Constr. Co., 725 Front Ave., St. Paul 3, Minn. (H)
 Skelton, Ray W., Co., Inc., 6540 Lyndale Ave., So., Minneapolis 19, Minn. (H)

(Symbols following names indicate type of construction performed by company; B—Building; H—Highway; Hvy—Heavy; RR—Railroad.)

MINNESOTA—Continued

Sorensen Bros., Inc., P. O. Box 246, Albert Lea, Minn. (H)
 Souther, M. E., Constr. Co., 1533 Como Ave., St. Paul 4, Minn. (B-H-Hvy)
 Ulland Bros., Austin, Minn. (H)
 United Construction Co., 64 W. 5th St., Winona, Minn. (Hvy)
 Volden, Verdie J., Inc., Farmington, Minn. (H)
 Welch, Mike, 1955 University Ave., St. Paul 4, Minn. (H)
 Winston Bros. Company, 1470 Northwestern Bk. Bldg., Minneapolis 2, Minn. (B-H-Hvy)
 Woodrich Constr., Inc., 201 18th Ave., So., Hopkins, Minn. (H-Hvy)

23. MISSISSIPPI

**(a) MISSISSIPPI VALLEY
FLOOD CONTROL BRANCH**

President—A. G. Hall, Pioneer Contr. Co., P. O. Box 4696, North Sta., Memphis, Tenn.
Manager—R. W. Crawford, Suite 203, Hotel Peabody, Memphis 3, Tenn.
Telephone: 8-1733

Atlas Constr. Co., Waxahachie, Texas (Hvy)
 Blanks, H. B., Constr. Co., Box 37, Vidalia, La. (Hvy)
 Clark & Farrell, Brinkley, Ark. (Hvy)
 Cohen, S. J., Blytheville, Ark. (Hvy)
 Cook Constr. Co., Jackson, Miss. (Hvy)
 Cross, Jas. P., 120 Iberia St., New Iberia, La. (Hvy)
 Crumpecker, Wm., & Sons, Morehouse, Mo. (Hvy)
 Driver Contr. Co., The, 406 Cotton Exch. Bldg., Memphis, Tenn. (Hvy)
 Forcum-James Co., Dyersburg, Tenn. (B-H-Hvy)
 Fordice Constr. Co., Rm. 42, Porter Bldg., Memphis, Tenn. (Hvy)
 Great Lakes Dredge & Dock Co., 124 Camp St., New Orleans, La. (Hvy)
 Hanson, A. J., Co., 1604 Henry St., Pineville, La. (B-H-Hvy)
 Hough-Cowgur & Co., 320 N. 4th St., St. Louis, Mo. (Hvy)
 Hughes Constr. Co., Box 184, Newellton, La. (Hvy)
 Hyde Constr. Co., Box 385, Jackson, Miss. (Hvy)
 Ingram, W. K., Constr. Co., Box 445, West Memphis, Ark. (Hvy)
 Inland Constr., Inc., Rosedale, Miss. (Hvy)
 Jahncke Service, Inc., 814 Howard Ave., New Orleans, La. (Hvy)
 James, T. L., & Co., Inc., Box 531, Ruston, La. (H-Hvy)
 Jones & Buchanan, P. O. Box 2425, Baton Rouge 1, La. (Hvy)
 Jones, S. K., Constr. Co., Sterick Bldg., Memphis, Tenn. (Hvy)
 Killman, Kile, Constr. Co., Inc., P. O. Box 129, Grenada, Miss. (Hvy)
 List, C. J., Constr. Co., 415 Railway Exch. Bldg., Kansas City 6, Mo. (H-Hvy)
 Luhr Bros., Inc., Columbia, Ill. (Hvy)
 Markham & Brown & L. L. Sanders, 1961 N. Industrial Blvd., Dallas, Texas (Hvy)

McAlister & Davis Co., 833 State St., Pine Bluff, Ark. (Hvy)
 McWilliams Dredging Company, 860 St. Charles St., P. O. Box 584, New Orleans 7, La. (Hvy)
 Mississippi Valley Engr. & Constr. Co., 787 S. Willett, Memphis, Tenn. (Hvy)
 Patton-Tully Transportation Co., N. 2d St., Memphis, Tenn. (Hvy)
 Pioneer Contr. Co., P. O. Box 4696, North Sta., Memphis, Tenn. (Hvy)
 Porter-DeWitt Constr. Co., P. O. Box 279, Poplar Bluff, Mo. (Hvy)
 Potashnick, R. B., P. O. Box 205, Cape Girardeau, Mo. (Hvy)
 Reid, R. J., Contr. Co., P. O. Box 1990, Birmingham, Ala. (Hvy-RR)
 Rodgers, H. N., & Sons Co., P. O. Box 750, Memphis, Tenn. (Hvy-RR)
 Smith, Gerald, Constr. Co., 923 S. 3d St., Memphis, Tenn. (Hvy)
 Stephens, Edgar, & Sons, Inc., 216 10th St., Cairo, Ill. (Hvy)
 Vollmer, C. W., & Co., Cotton Exch. Bldg., Houston, Texas (Hvy)
 Walsh-Weaver Constr. Co., Inc., Box 631, Jackson, Miss. (Hvy)
 Watts, Cleal T., Rochdale, Miss. (Hvy)
 Weymouth Constr. Co., P. O. Box 319, Memphis, Tenn. (Hvy)
 Wolfe, Monroe J., 1023 Ridgewood Dr., New Orleans, La. (Hvy)

**(b) ASSOCIATED BUILDING
CONTRACTORS OF MISSISSIPPI**

President—W. I. Schutt, M. T. Reed Constr. Co., Millsaps & Wightman Sts., P. O. Box 1066, Jackson, Miss.
Manager—Junior O'Mara, P. O. Box 141, Jackson, Miss.
Telephone: 2-0726

Bass, C. E., & Co., P. O. Box 1033, Jackson, Miss. (B)
 Beckelheimer, W. T., 427 Eastview St., Jackson 26, Miss. (B)
 Campbell Constr. Co., 792 Commerce St., Jackson, Miss. (B)
 Dye & Mullings, Inc., P. O. Box 485, Columbia, Miss. (B)
 Flint Bros. Constr. Co., 904 Deposit Guaranty Bldg., P. O. Box 1289, Jackson, Miss. (B)
 Harvey, L. A., 711 Eagle Ave., Jackson, Miss. (B)
 Howie Constr. Co., 720 Bratton St., Jackson, Miss. (B)
 Jordan Constr. Co., P. O. Box 973, Jackson, Miss. (B)
 King-North Constr. Co., 125 Mayes St., Box 1012, Jackson, Miss. (B)
 Reed, M. T., Constr. Co., Millsaps & Wightman Sts., P. O. Box 1066, Jackson, Miss. (B-H)
 Starr Constr. Co., May Bldg., Box 341, Greenville, Miss. (B)
 Thompson, Frank, 114½ N. Farish St., P. O. Box 1051, Jackson, Miss. (B)
 Wells, W. L., 524 Mitchell Ave., Jackson, Miss. (B-H)
 Wetmore, W. G., 649 N. Mill St., P. O. Box 63, Jackson, Miss. (B)

24. MISSOURI

(a) KANSAS CITY CHAPTER

President—Ding Burton, Swenson Constr. Co., 3305 Terrace St., Kansas City 2, Mo.
Secretary—W. W. Hutton, 20 W. 9th St. Bldg., Kansas City 6, Mo.
Telephone: Victor 8005

Bennett Constr. Co., 3252 Roanoke Rd., Kansas City, Mo. (B)
 Brown-Hawkins Constr. Co., 325 Finance Bldg., Kansas City 6, Mo. (B)
 Chambers-Tarbell, 1643 Bellview, Kansas City 8, Mo. (B)
 Collins Constr. Co., 3160 Fairfax Rd., Kansas City 15, Kans. (B)
 Dasta, Sam, & Son Constr. Co., 423 Railway Exch. Bldg., Kansas City, Mo. (B)
 Dreier & Son Constr. Co., 1123 Quindaro Blvd., Kansas City 2, Kans. (B)
 Dunn, J. E., Constr. Co., 929 Holmes St., Kansas City 6, Mo. (B)
 Eldridge Constr. Co., 1043 S. 55th St., Rt. 2, Kansas City, Kans. (B)
 Elliott, Hiram, Constr. Co., Suite 705-6, Commerce Trust Bldg., 922 Walnut St., Kansas City 6, Mo. (B)
 Flett Constr. Co., 4325 Troost Ave., Kansas City 4, Mo. (B)
 Fogel Contrs., Inc., 1212 E. 8th, Kansas City 6, Mo. (B)
 Fox, H. H., Constr. Co., 540 Railway Exch. Bldg., Kansas City 6, Mo. (B)
 Haren & Laughlin Constr. Co., 953 Minnesota Ave., Kansas City 14, Kans. (B)
 Hoffman, Morris, Contr. Co., 309-11 Victor Bldg., Kansas City 6, Mo. (B)
 Hucker, Clarence P., Co., Dwight Bldg., Kansas City 6, Mo. (B)
 Inter State Constr. Co., 3621 Troost Ave., Kansas City 3, Mo. (B-Hvy)
 Kelly, C. A. & R. J., 603 Porter Bldg., Broadway at 34th St., Kansas City 2, Mo. (B)
 Knoop, J. K., Constr. Co., 300 Dwight Bldg., 1004 Baltimore Ave., Kansas City 6, Mo. (B)
 Koch-Schroeder Constr. Co., 19th & Frederick Ave., St. Joseph, Mo. (B)
 Long Construction Company, 810 Rialto Bldg., Kansas City 6, Mo. (B-Hvy)
 Miller-Stauch Constr. Co., 321 Railway Exch. Bldg., Kansas City 6, Mo. (B)
 Patti, S., Constr. Co., Inc., 1340 Admiral Blvd., Kansas City 6, Mo. (B)
 Quinlan Constr. Co., 407 Liberty, Kansas City, Mo. (B)
 Rau Constr. Co., 2409 Harrison, Kansas City 8, Mo. (B)
 Rawlings, Wm. S., Co., 1004 Forest Ave., Kansas City 6, Mo. (B)
 Schweiger Constr. Co., 1525 Michigan Ave., Kansas City 1, Mo. (B)
 Sievers Constr. Co., 215 E. Main St., Sedalia, Mo. (B)
 Swenson Constr. Co., 3305 Terrace St., Kansas City 2, Mo. (B)
 Universal Constr. Co., 522 Scarritt Bldg., Kansas City 6, Mo. (B)
 Weeks Constr. Co., Inc., 1814 Harrison, Kansas City 8, Mo. (B)
 Winn-Senter Constr. Co., 430 Railway Exch. Bldg., Kansas City 6, Mo. (B)

MISSOURI—Continued

(b) ASSOCIATED GENERAL CONTRACTORS OF MISSOURI

President—Ray Gast, Gast & Ray Contr. Co., 106 S. Main, Louisiana, Mo.
Manager—E. C. L. Wagner, Hotel Governor Bldg., Jefferson City, Mo.
Telephone: 6-9613

Abramson, John P., Constr. Co., 720 Savings & Loan Bldg., Des Moines 9, Iowa (H-Hvy)
 Aldridge, R. G., 1604 Nebraska Ave., Kansas City 2, Kans. (H-Hvy)
 Arnold, Lewis W., Rt. 2, Mexico, Mo. (H)
 Atkinson, C. H., Paving Co., Chillicothe, Mo. (H-Hvy)
 Bennett, Geo., Constr. Co., 1520 Central Ave., Kansas City 2, Kans. (H-Hvy)
 Bennett, W. H., & Reece Constr. Co., 1310 State Ave., Kansas City, Kans. (H-Hvy)
 Bilhorn, Bower & Peters, Inc., 8003 Forsythe Blvd., Clayton 5, Mo. (Hvy)
 Blackburn & Whiteside Constr. Co., Mammoth Spring, Ark. (H)
 Brunn Constr. Co., 1605 E. 76th St., Kansas City 5, Mo. (Hvy-RR)
 Burk Constr. Co., 2106 N. Delaware, Springfield, Mo. (H)
 Bushman Constr. Co., Box 107, St. Joseph, Mo. (H)
 Cameron, Joyce & Co., 19 S. 7th St., Keokuk, Iowa (H-Hvy)
 Carte Bros. Constr. Co., Inc., West Plains, Mo. (H)
 Clark & Runquist Constr. Co., P. O. Box 72, Savannah, Mo. (H)
 Clarkson Constr. Co., The, 4133 Gardner Ave., Box 4924, Sta. F, Kansas City 1, Mo. (H-Hvy)
 Concrete Materials & Constr. Co., Box 790, 405 Granby Bldg., Cedar Rapids, Iowa (H)
 Condon-Cunningham Co., 4229 Lafayette Ave., Omaha 3, Nebr. (H-Hvy)
 Conduit Contr. Co., Inc., 2317 Tennessee Ave., St. Louis 4, Mo. (Hvy)
 Davidson, M. J., 5828 Lindenwood, St. Louis 9, Mo. (H)
 Davis Constr. Co., Inc., 6th & Spring Sts., Boonville, Mo. (H-Hvy)
 Feeney Constr. Co., 7th & Olive Sts., St. Joseph, Mo. (H)
 Foreman, C. S., Co., 1900 Armour Rd., North Kansas City, Mo. (H-Hvy)
 Gast & Ray Contr. Co., 106 S. Main, Louisiana, Mo. (H)
 Granite Bituminous Paving Co., 3943 Duncan Ave., St. Louis 10, Mo. (H)
 Grantwood Contr. Co., Inc., 7952 S. Rock Hill Rd., St. Louis 23, Mo. (H-Hvy)
 Gray, Len, 8742 Litzinger Dr., Brentwood 17, Mo. (H-Hvy)
 Hamilton, Gordon, Contr. Co., Inc., 7th Fl., Railway Exch. Bldg., Kansas City 6, Mo. (Hvy)
 Harlin, E. L., West Plains, Mo. (H)
 Harrison Engr. & Constr. Corp., 4638 Mill Creek Pkwy., Kansas City 2, Mo. (H-Hvy)

Hayes, L. W., Inc., 4550 Main St., Kansas City 2, Mo. (H)
 Houge, R. S., 1145 S. Florence Ave., Springfield, Mo. (H-Hvy)
 Hough-Cowgur & Co., 320 N. 4th St., St. Louis, Mo. (Hvy)
 Howard Constr. Co., 1419 N. Osage St., Sedalia, Mo. (H)
 Kansas City Bridge Co., 928 Broadway, Kansas City 6, Mo. (Hvy)
 Kirkwood Constr. Co., 817 E. Monroe, Kirkwood, Mo. (H)
 Kissick & Son Constr. Co., Hickman Mills, Mo. (H)
 Knutson-Gould Constr. Co., 405 Congress Bldg., 3527 Broadway, Kansas City 2, Mo. (H)
 Koss Construction Company, 205 Farm Bureau Bldg., Des Moines 9, Iowa (H-Hvy)
 Kraus, Samuel, Co., 649 Edmund Ave., St. Louis 10, Mo. (H-Hvy)
 Krehbiel-Stalker Constr. Co., 411 S. Garth, Columbia, Mo. (H-Hvy)
 Land Constr. Co., 1207 S. 4th St., St. Joseph 26, Mo. (H-Hvy)
 Latta, J. E., Constr. Co., Inc., 6609 Latta Pl., St. Louis 20, Mo. (B-Hvy)
 List, C. J., Constr. Co., 415 Railway Exch. Bldg., Kansas City 6, Mo. (H-Hvy)
 List & Clark Construction Company, 729 Railway Exch. Bldg., Kansas City 6, Mo. (H-Hvy-RR)
 List & Weatherly Constr. Co., 296 Plaza Theatre Bldg., 231 W. 47th St., Kansas City 2, Mo. (H-Hvy)
 Luth, Fred M., & Sons, Inc., 4516 McRee Ave., St. Louis 10, Mo. (Hvy)
 Lynn, W. A., Constr. Co., 1022 Trust Bldg., Lincoln, Nebr. (Hvy)
 Maloney, J. T., & Son, 148 S. Elm, Webster Groves 19, Mo. (H-Hvy)
 Markham & Brown, 1961 N. Industrial Blvd., Dallas, Texas (H)
 Mary Constr. Co., Cape Girardeau, Mo. (Hvy)
 Massman Constr. Co., 737 New York Life Bldg., Kansas City 6, Mo. (Hvy)
 Masters-Jackson Paving Co., 630 Woodruff Bldg., Springfield, Mo. (H)
 Maxwell Bridge Co., The, P. O. Box 348, Columbus, Kans. (H)
 McCarthy-Pohl Contrs., Inc., 4903 Delmar Blvd., St. Louis 8, Mo. (H-Hvy)
 McGeorge, W. P., Jr., Box 995, Pine Bluff, Ark. (H-Hvy)
 Menefee, W. J., Constr. Co., 400 W. 2d St., Sedalia, Mo. (H)
 Metcalfe Constr. Co., 7th Fl., Railway Exch. Bldg., Kansas City 6, Mo. (Hvy)
 Midwest Constrs., Inc., Poplar Bluff, Mo. (H)
 Midwest Precote Co., 7600 E. 17th St., Kansas City 3, Mo. (H)
 Missouri Petroleum Prods. Co., 1620 Woodson Rd., Overland 14, Mo. (H)
 O'Dell & Riney Constr. Co., Box 3775, Kirkwood 22, Mo. (H-Hvy)
 P. & S. Constr. Co., Macon, Mo. (H)
 Payne & Dolan, Inc., 38 S. Dearborn, Chicago 3, Ill. (H)

Penzel Constr. Co., Jackson, Mo. (B-H)
 Perkinson, Henry L., Constr. Co., 132 E. Douglas St., St. Louis 7, Mo. (H)
 Pohl, Jos. L., Box 13, Nevada, Mo. (H-Hvy)
 Porter-DeWitt Constr. Co., P. O. Box 279, Poplar Bluff, Mo. (H-Hvy)
 Potashnick, R. B., P. O. Box 205, Cape Girardeau, Mo. (H)
 Prater Constr. Co., Harrisonville, Mo. (H)
 Quinn Constr. Co., 5006 Main St., Kansas City 2, Mo. (H-Hvy)
 Regenhardt Constr. Co., 302 Hemmelberger-Harrison Bldg., Cape Girardeau, Mo. (H-Hvy)
 Reno Constr. Co., Box 61, Overland Park, Kans. (H)
 Riney, L. W., Constr. Co., 323 S. Maple, Hannibal, Mo. (H)
 Rock Hill Asphalt & Constr. Co., 8820 Ladue Rd., P. O. Box 229, Clayton 5, Mo. (H)
 Storms & Frew Constr. Co., 6601 E. 37th St., Kansas City 3, Mo. (H-Hvy)
 Tarlton, C. L., Contr. Co., 5505 Dale Ave., St. Louis 10, Mo. (B-H-Hvy)
 Tobin, J. A., Constr. Co., 3700 Rainbow Blvd., Kansas City 3, Kans. (H-Hvy)
 Tobin Quarries, Inc., 220 W. 39th St., Kansas City 2, Mo. (B-H-Hvy)
 Trager, Frank, 401 S. Washington St., Chillicothe, Mo. (H)
 Vance Bros., 4923 Lawn Ave., Kansas City 4, Mo. (H)
 Wilson, C. T., Contr. Co., 99 E. Grand St., Louis 7, Mo. (B-H-Hvy)
 Winston Bros. Company, 1470 Northwestern Bk. Bldg., Minneapolis 2, Minn. (H-Hvy)

(c) ASSOCIATED GENERAL CONTRACTORS OF ST. LOUIS

President—J. C. Bodine, Grantwood Contr. Co., Inc., 7952 S. Rock Hill Rd., St. Louis 23, Mo.
Manager—Henry S. Till, Jr., 511 Locust St., St. Louis 1, Mo.
Telephone: Chestnut 8339

(Building Division)

Abrahams, Sol, & Son Constr. Co., 1207 Delmar Ave., St. Louis 3, Mo. (B)
 Alberici, J. S., Constr. Co., Inc., 1550 Irving Ave., St. Louis 20, Mo. (B)
 Alport-Carlo Constr. Co., Title Guaranty Bldg., St. Louis 1, Mo. (B)
 Bank Bldg. & Equip. Corp. of America, 906 Sidney St., St. Louis 4, Mo. (B)
 Bechtel Corp., P. O. Box 480, St. Louis, Mo. (B)
 Brockmeyer Constr. Co., 634 N. Grand Blvd., St. Louis 3, Mo. (B)
 Brunson, E. A., Constr. Co., 4052 Forest Park Blvd., St. Louis 8, Mo. (B)
 Bumiller & Meyersieck, 2604 Cherokee St., St. Louis 18, Mo. (B)
 Cousins, Geo. L., Contr. Co., 875 N. Skinker Blvd., St. Louis 5, Mo. (B-Hvy)
 Cunliff, Wm. H. & Nelson, Co., 3320 Lindell Blvd., St. Louis 3, Mo. (B)

(Symbols following names indicate type of construction performed by company; B—Building; H—Highway; Hvy—Heavy; RR—Railroad.)

A.G.C. DIRECTORY

MISSOURI—Continued

- Dailey, H. A., Inc., 876 Hodiament Ave., St. Louis 12, Mo. (B)
- David, E. F., House Moving Co., 1548 S. Vandeventer Ave., St. Louis 10, Mo. (B)
- Deal, H. B., & Co., Inc., 5517 Manchester Ave., St. Louis 10, Mo. (B)
- Dickie Constr. Co., 517 Louderman Bldg., St. Louis 1, Mo. (B)
- Dilschneider, Ray M., Inc., 8600 Manchester Rd., St. Louis 17, Mo. (B)
- Elam Contr. Co., 5203 Hampton Ave., St. Louis 9, Mo. (B)
- Frazier-Davis Constr. Co., 1319 Macklind Ave., St. Louis 10, Mo. (B-H-Hvy-RR)
- Fruin-Colnon Constr. Co., 1706 Olive St., St. Louis 3, Mo. (B-H-Hvy-RR)
- Gamble Constr. Co., 804 Pine St., St. Louis 1, Mo. (B)
- Gutmann, John B., Constr. Co., Inc., 1301 S. Vandeventer Ave., St. Louis 10, Mo. (B)
- Haeseler, A. H., Bldg. & Contr. Co., 2346 Palm St., St. Louis 7, Mo. (B)
- Harting, W. C., Constr. Co., 722 Chestnut St., St. Louis 1, Mo. (B)
- Hertfelder, Wm., Inc., 4108 Clayton Ave., St. Louis 10, Mo. (B)
- Hill, John, Constr. Co., 915 Olive St., St. Louis 1, Mo. (B)
- Ideson Co., Inc., The, 432 S. Sappington Rd., Kirkwood, Mo. (B)
- Jones-Kissner Constr. Co., 706 Chestnut St., St. Louis 1, Mo. (B)
- Kiewit, Peter, Sons' Co., Veterans Hospital, Jefferson Barracks 23, Mo. (B-Hvy)
- Kloster Co., 4607 Beck Ave., St. Louis 16, Mo. (B)
- Lecoutour Constr. Co., 1419 Hampton Ave., St. Louis 10, Mo. (B)
- MacDonald Constr. Co., 1310 S. Grand Ave., St. Louis 4, Mo. (B)
- McCormack, R. C., 3936 Lindell Blvd., St. Louis 8, Mo. (B)
- Mikkelsen, E. C., Constr. Co., Inc., 201 Grand Ave., Kirkwood 22, Mo. (B)
- Millstone, I. E., Constr. Co., 4343 Clayton Ave., St. Louis 10, Mo. (B-Hvy)
- Moeller, Geo., Constr. Co., 3007 Wyoming St., St. Louis 18, Mo. (B)
- Murch-Jarvis Co., Inc., 718 Locust St., St. Louis 1, Mo. (B)
- Musick, Don C., Constr. Co., 4900 Washington Blvd., St. Louis 8, Mo. (B)
- Park, Alden B., 17 N. Hanley Rd., Clayton 5, Mo. (B)
- Paulus, Robt., Constr. Co., 3441 Morganford Rd., St. Louis 16, Mo. (B)
- Pelligreen Constr. Co., 504 Columbia Bldg., St. Louis 1, Mo. (B)
- Shelby Constr. Co., Inc., 1411 Brentwood Blvd., St. Louis 17, Mo. (B)
- Smith-Cooke Constr. Co., 4829 Easton Ave., St. Louis 13, Mo. (B)
- Stocker, L. O., Co., 3928 Lindell Blvd., St. Louis 8, Mo. (B)
- Tarleton, G. L., Contr. Co., 5505 Dale Ave., St. Louis 10, Mo. (B-Hvy)
- Wells & Wells, Inc., 420 Security Bldg., St. Louis 2, Mo. (B-Hvy)
- Westlake Constr. Co., 1919 Railway Exch. Bldg., St. Louis 1, Mo. (B)
- Williams, J. E., Constr. Co., 6490 Page Ave., St. Louis 14, Mo. (B)
- Willingham Constr. Co., Inc., 5701 Vernon Ave., St. Louis 12, Mo. (B)
- Woermann Constr. Co., 3800 W. Pine Blvd., St. Louis 8, Mo. (B)
- Wright, Robt. R., 7910 Bonhomme Ave., Clayton 5, Mo. (B)

(Highway and Heavy Division)

- Aalco Heavy Hauling Co., 3519 Page Blvd., St. Louis 6, Mo. (Hvy)
- Bangert Bros. Constr. Co., 8510 Lackland Rd., Overland 14, Mo. (H)
- Ben Hur Constr. Co., 5100 Farlin Ave., St. Louis 15, Mo. (Hvy)
- Blue, W. A., Co., 7820 Forsyth Blvd., Clayton 5, Mo. (Hvy)
- Bridges Paving Co., 1411 Central Industrial Dr., St. Louis 10, Mo. (H)
- Conduit Contr. Co., Inc., 2317 Tennessee Ave., St. Louis 4, Mo. (Hvy)
- Granite Bituminous Paving Co., 3943 Duncan Ave., St. Louis 10, Mo. (H)
- Grantwood Contr. Co., Inc., 7952 S. Rock Hill Rd., St. Louis 23, Mo. (H-Hvy)
- Hamm, Daniel, Drayage Co., 2d & Tyler Sts., St. Louis 6, Mo. (Hvy)
- Kraus, Samuel, Co., 649 Edmund Ave., St. Louis 10, Mo. (H-Hvy)
- Kroeger, Harry W., Erection Co., 4829 Parker St., St. Louis 16, Mo. (Hvy)
- Krummel, Paul, 7201 Weil Ave., Shrewsbury 19, Mo. (Hvy)
- Latta, J. E., Constr. Co., 6609 Latta Pl., St. Louis 20, Mo. (H-Hvy-RR)
- Luth, Fred M., & Sons, Inc., 4516 McRee Ave., St. Louis 10, Mo. (Hvy)
- Maguire Constr. Co., 7435 Augusta Dr., St. Louis 21, Mo. (H-Hvy)
- Micotto, R. C., Constr. Co., 6918 Lansdowne Ave., St. Louis 9, Mo. (H-Hvy)
- Morgan, Arthur, Trucking Co., 2923 N. Broadway, St. Louis 7, Mo. (Hvy)
- Perkinson, Henry L., 132 E. Douglas St., St. Louis 7, Mo. (H-Hvy)
- Riley, Wm. A., Paving & Constr. Co., Inc., 4903 Delmar Blvd., St. Louis 8, Mo. (H-Hvy)
- St. Louis Steel Erection Co., 5112 Wise Ave., St. Louis 10, Mo. (B-H-Hvy)
- Skrainka Constr. Co., 7173 Delmar Blvd., University City 5, Mo. (H-Hvy)
- Southampton Hauling Co., 4499 Fyler Ave., St. Louis 9, Mo. (Hvy)
- Vollmar Bros. Constr. Co., Foot of Victor St., St. Louis 4, Mo. (B-Hvy)
- Wilson, C. T., Contr. Co., 99 E. Grand, St. Louis 7, Mo. (H-Hvy-RR)

Local Members

- Glaze Construction Company, 602 N. 2nd St., St. Joseph, Mo. (B)
- Lehr Constr. Co., 2115 Frederick Ave., St. Joseph, Mo. (B)

25. MONTANA

(a) MONTANA CONTRACTORS' ASSOCIATION, INC.

President—Geo. Nilson, Nilson-Smith Constr. Co., P. O. Box 1147, Great Falls, Mont.

Secretary-Manager—J. Edward Hergert, Mezzanine, Placer Hotel, Helena, Mont.

Telephone: 3061

- A & W Constr. Co., Box 228, Glasgow, Mont. (H)
- Arkwright, Stanley H., Inc., 1200 6th Ave., No., P. O. Box 1211, Billings, Mont. (H)
- Atkinson, Guy F., Co., 10 W. Orange Ave., P. O. Box 593, South San Francisco, Calif. (H-Hvy)
- Bail, C. R., Harrison, Mont. (H)
- Birch, S., & Sons Constr. Co., 314 Ford Bldg., Great Falls, Mont. (H-Hvy)
- Blacktop Constr. Co., Inc., Box 1353, Billings, Mont. (H)
- Blakeslee, E. H., Constr. Co., 431 Ford Bldg., Great Falls, Mont. (Hvy)
- Boespflug, J. C., Constr. Co., 1912 4th Ave., So., Seattle, Wash. (B-H)
- Cahill-Mooney Constr. Co., Box 398, Butte, Mont. (B-H-Hvy)
- Clifton & Applegate, Box 1473, Spokane 6, Wash. (H-Hvy-RR)
- Dillsworth & Pumnea, 403½ Madison St., Helena, Mont. (H-Hvy)
- F & S Contr. Co., P. O. Box 4, Butte, Mont. (H)
- Geery, Glenn, Inc., 302 Wilma Bldg., Missoula, Mont. (H-Hvy-RR)
- Groves, S. J., & Sons Co., 500 Wesley Temple Bldg., Minneapolis 4, Minn. (H-Hvy)
- Halvorson, Carl M., 218 Builders Exch. Bldg., Portland, Oreg. (H-Hvy)
- Hansen & Parr Constr. Co., 1103 N. Calispel, Spokane, Wash. (Hvy)
- Heald & Christler, Inc., Box 1028, Cody, Wyo. (H)
- Herrick, R. P., Co., 2712 Phillips St., Butte, Mont. (H)
- Hilde Constr. Co., Inc., 3810 7th Ave., No., Great Falls, Mont. (H-Hvy-RR)
- Holzworth Constr. Co., P. O. Box 158, 1st Natl. Bk. Bldg., Miles City, Mont. (B-H-Hvy)
- Inland Constr. Co., 3867 Leavenworth St., Omaha 5, Nebr. (H-Hvy-RR)
- Kiely Constr. Co., P. O. Box 65, Butte, Mont. (H)
- Kiewit, Peter, Sons' Co., P. O. Box 875, Sheridan, Wyo. (Hvy)
- Kuney, Max J., Co., N. 120 Ralph St., Box 4008, Sta. B, Spokane 15, Wash. (H-Hvy-RR)
- Lalonde, Albert, Co., Sidney, Mont. (B-H)
- Lease & Leigland, 1501 N. 35th St., Seattle 3, Wash. (B-H-Hvy)
- Lewis Constr. Co., 903 10th Ave., No., Great Falls, Mont. (B)
- Lockwood, L. V., Box 227, Glasgow, Mont. (Hvy)
- Long Constr. Co., Box 1291, Billings, Mont. (H-Hvy-RR)
- Lyon Constr. Co., Clinton, Mont. (H-RR)

MONTANA—Continued

Marshall, G. E., P. O. Box 217, Melstone, Mont. (H)
 McKinnon-Decker Co., 1520 Hauser Blvd., Helena, Mont. (B)
 McLaughlin Constr. Co., 12th & Clark Sts., Livingston, Mont. (H)
 McLaughlin, Inc., 327 Ford Bldg., Great Falls, Mont. (H)
 Midland Constr. Co., P. O. Box 1485, Missoula, Mont. (H-Hvy)
 Montana Engr. & Constr. Co., Box 823, Helena, Mont. (H-Hvy-RR)
 Nilson-Smith Constr. Co., P. O. Box 1147, Great Falls, Mont. (H-Hvy)
 Northwestern Engr. Co., 1311 St. Joe St., Box 1392, Rapid City, S. Dak. (B-H)
 O'Brien Constr. Co., 1811 2d Ave., No., P. O. Box 1801, Great Falls, Mont. (H-Hvy-RR)
 O'Connor Constr. Co., Fromberg, Mont. (B-H)
 O'Connor Constr. Co., Inc., Box 431, Kalispell, Mont. (H-Hvy)
 O'Neil Constr. Co., The, P. O. Box 1151, Havre, Mont. (H-Hvy)
 Powell, E. C., 11th Ave., No. & 11th St., Great Falls, Mont. (H)
 Richardson, Lou, Box 513, Miles City, Mont. (H)
 Riedesel Constr. Co., 2325 9th Ave., No., Box 477, Billings, Mont. (B-H-Hvy-RR)
 Schye & Sullivan, White Sulphur Springs, Mont. (B-H-Hvy)
 Shannon, Chas., Co., 502 S. Washington St., Butte, Mont. (H-Hvy)
 Snyder, Chas. B., P. O. Box 1952, Great Falls, Mont. (H)
 Standard Constr. Co., Box 749, Bozeman, Mont. (H-Hvy)
 Staunton, Thos., 806 1st Natl. Bk. Bldg., P. O. Box 1745, Great Falls, Mont. (H)
 Taggart Constr. Co., Inc., P. O. Box 560, Cody, Wyo. (H-Hvy)
 Thomas Constr. Co., 1615 6th Ave., No., Billings, Mont. (H-Hvy)
 Union Constr. Co., Inc., Fort Missoula, P. O. Box 1261, Missoula, Mont. (H-RR)
 Utility Bldrs., Inc., 431 Ford Bldg., Great Falls, Mont. (Hvy)
 Walling Constr. Co., 408 Huron St., Lewistown, Mont. (Hvy)
 White Bros. Constr. Co., Inc., P. O. Box 376, 3d & Sumach, Walla Walla, Wash. (Hvy)
 Woodward, L. A., Constr. Co., 1203 Wyoming St., Missoula, Mont. (H-Hvy-RR)

(b) MONTANA BUILDING CHAPTER

President—E. J. Decker, McKinnon-Decker Co., 1520 Hauser Blvd., Helena, Mont.

Secretary-Manager—J. Edward Hergert, Mezzanine, Placer Hotel, Helena, Mont.

Telephone: 3061

Anderson, P. B., & Co., Inc., Cut Bank, Mont. (B)

Anderson, Ray, Constr. Co., 515 W. Aspen, Bozeman, Mont. (B)

Askevold Constr. Co., Inc., Mammond Arcade, P. O. Box 1125, Missoula, Mont. (B)
 Barney, L. P., 1105 10th Ave., P. O. Box 1073, Helena, Mont. (B)
 Boespflug, J. C., Constr. Co., P. O. Box 1237, Billings, Mont. (B)
 Cahill-Mooney Constr. Co., 420 N. 25th St., Billings, Mont. (B-Hvy)
 Carlson, Arved, 301 Burlington Ave., Missoula, Mont. (B)
 Carson Constr. Co., Inc., 1st Natl. Bk. Bldg., P. O. Box 1153, Helena, Mont. (B)
 Dudley Constr. Co., P. O. Box 546, Great Falls, Mont. (B-Hvy)
 Fuglevand, Chris, & Son, 519 4th St., Havre, Mont. (B)
 Graham, Wilbur L., Strand Bldg., P. O. Box 182, Kalispell, Mont. (B)
 Haggerty-Messmer Co., P. O. Box 334, Bozeman, Mont. (B-Hvy)
 Hitz Constr. Co., Box 742, Billings, Mont. (B-H)
 Holm Constr. Co., Box 1107, Glendive, Mont. (B)
 Johnson, Al, 326 Allen St., Helena, Mont. (B)
 Johnson, I. M., 239 E. Babcock, Bozeman, Mont. (B)
 McKinnon-Decker Co., 1520 Hauser Blvd., Helena, Mont. (B)
 Mitchell, C. E., & Sons, 917 4th Ave., No., Great Falls, Mont. (B)
 Nicholson Co., Inc., The, 507 Silver Bow Block, 20 W. Granite, Butte, Mont. (B)
 O'Neil Constr. Co., The, Box 1151, Havre, Mont. (B)
 Pappin Constr. Co., 700 2d St., So., P. O. Box 1432, Great Falls, Mont. (B)
 Pew Constr. Co., 314 Evans Ave., Missoula, Mont. (B)
 Riedesel Constr. Co., 2325 9th Ave., No., Box 477, Billings, Mont. (B-H-Hvy-RR)
 Siert, John, 324 Missouri St., P. O. Box 493, Chinook, Mont. (B)
 Sletten Constr. Co., 1301 10th Ave., No., P. O. Box 1188, Great Falls, Mont. (B)
 Underseith, Theo, 800 Breckenridge, Helena, Mont. (B)

26. NEBRASKA

(a) NEBRASKA BUILDING CHAPTER

President—T. J. Kalamaja, Peter Kiewit Sons' Co., 1024 Omaha Natl. Bk. Bldg., Omaha 2, Nebr.
Secretary—Virgil J. Haggart, 1130 1st Natl. Bk. Bldg., Omaha 2, Nebr.
Telephone: Jackson 1196

Assenmacher, W. J., Co., 625 N. 17th St., P. O. Box 246, Lincoln, Nebr. (B)
 Beckenhauer Bros., 1408 Norfolk Ave., Norfolk, Nebr. (B)
 Best, Glenn R., Constr. Co., 617 Bross St., Longmont, Colo. (B)
 Borchman, A., Sons, 4601 Douglas St., Omaha 3, Nebr. (B)
 Christ, Carl W., 624 Jackson, Sidney, Nebr. (B)

Claussen, John, & Sons, 803 S. Clark St., Grand Island, Nebr. (B)
 Cooper Constr. Co., 110 S. 46th St., Omaha, Nebr. (B)
 Foster-Smetana Co., 4360 Nicholas St., Omaha 3, Nebr. (B)
 Fricke, H. C., 816 W. 4th St., Box 185, Alliance, Nebr. (B)
 Fullen Constr. Co., 315 W. Railroad St., P. O. Box 69, Scottsbluff, Nebr. (B-H)
 Geer-Maurer Constr. Co., 315 N. Oak, P. O. Box 395, Grand Island, Nebr. (B)
 Gilmore Constr. Co., 1207 N. 11th St., Omaha, Nebr. (B)
 Jones, W. Boyd, Co., 111 S. 40th St., Omaha, Nebr. (B)
 Kaufman, J. E., 2716 9th Ave., Kearney, Nebr. (B-Hvy)
 Kealy Constr. Co., 1300 E. 7th St., Hastings, Nebr. (B)
 Kiewit, Peter, Sons' Co., 1024 Omaha Natl. Bk. Bldg., Omaha 2, Nebr. (B)
 Kingery Constr. Co., 1941 Y St., Box 1723, Lincoln, Nebr. (B)
 Korshoj Constr. Co., Blair, Nebr. (B-H)
 Lien, Chris S., Co., Holdrege, Nebr. (B)
 Lof, John, & Sons, 4012 Lake St., Omaha 4, Nebr. (B)
 Lueder Constr. Co., 601 Redick Tower Bldg., Omaha 2, Nebr. (B)
 Olson Constr. Co., 410 S. 7th St., Lincoln 8, Nebr. (B-H)
 Parsons Constr. Co., 512 Grain Exch. Bldg., Omaha 2, Nebr. (B)
 Rorick Constr. Co., 905 S. 20, Omaha 2, Nebr. (B)
 Sothman Constr. Co., 327 N. Cleburn, Grand Island, Nebr. (B)
 Westcott-Bowen Constr. Co., 1400 Sunburst Lane, Lincoln, Nebr. (B-Hvy)
 Wilson Constr. Co., 727 S. 11th St., Box 2046, Lincoln 1, Nebr. (B)

(b) NEBRASKA CHAPTER

President—L. C. Curtis, Lyman Richey Sand & Gravel Corp., 750 Omaha Natl. Bk. Bldg., Omaha 2, Nebr.
Engineer-Secretary—Milburn D. Johnson, 420 Federal Securities Bldg., Lincoln 8, Nebr.
Telephone: 2-6210

Abel Constr. Co., Box 268, 895 N. 16th St., Lincoln 1, Nebr. (H-RR)
 Ace Constr. Co., 2110 S. 55th St., Omaha, Nebr. (B-H-Hvy-RR)
 Behrens Constr. Co., 919 Court St., P. O. Box 373, Beatrice, Nebr. (H)
 Berggren, Harry F., & Sons, Inc., Box 64, Scottsbluff, Nebr. (H-Hvy)
 Biba, W. A., Engr. Co., Geneva, Nebr. (H)
 Bushman Constr. Co., Box 107, St. Joseph, Mo. (H)
 Christensen Sand & Gravel Co., Stephens Natl. Bk. Bldg., Fremont, Nebr. (H)
 Claussen-Olson-Benner, Inc., 119 S. East Ave., Holdrege, Nebr. (H-Hvy)
 Concrete Materials & Constr. Co., 405 Granby Bldg., Cedar Rapids, Iowa (H)
 Condon-Cunningham Co., 4229 Lafayette Ave., Omaha 3, Nebr. (H-Hvy)
 De Long, C. L., Nebraska City, Nebr. (Hvy)

(Symbols following names indicate type of construction performed by company: B—Building; H—Highway; Hvy—Heavy; RR—Railroad.)

NEBRASKA—Continued

Dobson Bros. Constr. Co., 512 1st Natl. Bk. Bldg., Lincoln, Nebr. (H-Hvy)
 Dobson & Robinson, 824 1st Natl. Bk. Bldg., Lincoln 8, Nebr. (H-Hvy)
 Dugdale Constr. Co., 1331 S. 20th St., Omaha, Nebr. (B-H-Hvy)
 Gerhold Co., Columbus, Nebr. (H)
 Green, Ralph, & W. L. Groesbeck, 1020 N. 14th St., Lincoln, Nebr. (H)
 Grosshans & Petersen, Inc., Marysville, Kans. (H-RR)
 Harlan Constr. Co., Republican City, Nebr. (Hvy)
 Inland Constr. Co., 3867 Leavenworth St., Omaha 5, Nebr. (H-Hvy)
 Johnson, H. W., Dakota Ave. So., P. O. Box 218, South Sioux City, Nebr. (H)
 Keim Constr. Co., Tecumseh, Nebr. (H)
 Kiewit, Peter, Sons' Co., 1024 Omaha Natl. Bk. Bldg., Omaha 2, Nebr. (B-H-Hvy)
 Kirk, R. V., Gibbon, Nebr. (H)
 Lee & Johnson, 220 Insurance Exch. Bldg., Sioux City 13, Iowa (H)
 Lyman Richey Sand & Gravel Corp., 750 Omaha Natl. Bk. Bldg., Omaha 2, Nebr. (H)
 Lynn, W. A., Constr. Co., 1022 Trust Bldg., Lincoln, Nebr. (Hvy)
 Millis, Ray, 736 Keeline Bldg., Omaha, Nebr. (H)
 Monarch Engr. Co., Falls City, Nebr. (H-Hvy)
 National Constr. Co., 1335 S. 20th St., Omaha 2, Nebr. (H)
 Nichols Constr. Co., Geneva, Nebr. (H)
 Norfolk Bridge & Constr. Co., 300 N. 7th St., Norfolk, Nebr. (H-Hvy)
 Northwestern Engr. Co., P. O. Box 567, Denver 1, Colo. (H)
 Orshek, Francis R., Co., 515 Stephens Natl. Bk. Bldg., Fremont, Nebr. (B-H)
 Overland Sand & Gravel Co., Stromsburg, Nebr. (H)
 Pentzien, Inc., 1504 Dodge St., Omaha 2, Nebr. (Hvy)
 Platte Valley Constr. Co., 900 S. Adams St., P. O. Box 595, Grand Island, Nebr. (H-Hvy-RR)
 Read, A. H., Co., 706 W. 19th St., Cheyenne, Wyo. (H-Hvy)
 Rentlor Co., Inc., P. O. Box 656, Grand Island, Nebr. (B-H-Hvy)
 Risk Pipe & Constr. Co., Nebraska City, Nebr. (H-Hvy)
 Roberts Constr. Co., 1018 Trust Bldg., Lincoln, Nebr. (H)
 San-Ore Constr. Co., McPherson, Kans. (H)
 Sawyer, Paul, Sand & Gravel Co., Holdrege, Nebr. (H)
 Steele Bros., Dorchester, Nebr. (H)
 Swanson, Arnold, & Co., P. O. Box 133, Hastings, Nebr. (B-H-Hvy)
 Theisen Bros., Osmond, Nebr. (H)
 Weidner & King, Fremont, Nebr. (B-H-Hvy)
 Werner, Geo. K., & Son, Clay Center, Nebr. (H)
 Western Contracting Corporation, 400 Benson Bldg., Sioux City 15, Iowa (H-Hvy-RR)
 Yant Constr. Co., 917 N. 45th St., Omaha 3, Nebr. (H-Hvy)

27. NEVADA

(a) NEVADA CHAPTER

President—Earl E. Games, 1380 Humboldt Ave., Reno, Nev.
Secretary-Manager—Edward L. Pine, Center & E. 2d Sts., P. O. Box 478, Reno, Nev.
Telephone: Reno 23525

Boudwin, Walker, Constr. Co., 624 E. 4th St., Reno, Nev. (B)
 Dieterich, Clarence, Co., 122 Rock St., Reno, Nev. (H-Hvy)
 Dodge Constr., Inc., Fallon, Nev. (H-Hvy)
 Foster & McHarg, 3610 8th St., P. O. Box 244, Riverside, Calif. (H-Hvy)
 Games, Earl E., 1380 Humboldt Ave., Reno, Nev. (H-Hvy)
 Isbell Constr. Co., Inc., S. Virginia Rd., P. O. Box 2351, Reno, Nev. (H-Hvy)
 Lee, Edd, 3601 S. Virginia St., Reno, Nev. (B)
 Manuel, Paul, P. O. Box 358, Reno, Nev. (B)
 Miller, Geo. E., P. O. Box 1728, Reno, Nev. (H-Hvy)
 Nelson, Wendell E., 717 W. Williams Ave., Fallon, Nev. (B)
 Nevada Engr. & Constr. Co., 135 B Vesta, Reno, Nev. (B)
 Novelty, O & O, Co., Inc., 801 Novelty Dr., Reno, Nev. (B)
 Ramsey Bros. Bldrs., P. O. Box 2266, Reno, Nev. (B)
 Ready-Mix Concrete Co., P. O. Box 1408, Reno, Nev. (B-H-Hvy)
 Roberts, John H. Co., 253 E. Taylor St., Reno, Nev. (B)
 Savage, John L., 1503 N. Carson St., Carson City, Nev. (H-Hvy)
 Schilling, G. E., Engr. & Constr. Co., Inc., 201 Sunnyside Dr., Reno, Nev. (H-Hvy)
 Schwake, M. G., Constr. Co., Gardnerville, Nev. (H-Hvy)
 Silver State Constr. Co., Inc., Fallon, Nev. (H-Hvy)
 Wells Cargo, Inc., P. O. Box 1511, 1800 E. 4th St., Reno, Nev. (H-Hvy)
 Wiechmann & Probasco, Inc., 320 Professional Bldg., Reno, Nev. (B)

(b) SOUTHERN NEVADA BUILDERS CHAPTER

President—Ben O. Davey, P. O. Box 1625, Las Vegas, Nev.
Secretary-Treasurer—L. A. Longley, Longley Constr. Co., Inc., 421 Bonanza Rd., Box 2104, Las Vegas, Nev.
Telephone: 4838
 Davey, Ben O., P. O. Box 1625, Las Vegas, Nev. (B)
 Desert Development Co., 207 Bridger St., Las Vegas, Nev. (B)
 Lembke Constr. Co., Inc., 16th & Charleston, Box 1391, Las Vegas, Nev. (B)
 Longley Constr. Co., Inc., 421 Bonanza Rd., Box 2104, Las Vegas, Nev. (B)
 Miller, Haynes, Smith, Inc., Box 1, Henderson, Nev. (B)
 Pioneer Constr. Corp., P. O. Box 2111, Las Vegas, Nev. (B)

Shelton Mill & Constr. Co., Box 2046, Las Vegas, Nev. (B)
 Stocks Mill & Supply Co., 750 Fremont, Las Vegas, Nev. (B)
 Tee Constr. Co., 343 N. 10th St., Las Vegas, Nev. (B)
 Thomas & Guinn, Inc., 109-111 St. Louis St., Las Vegas, Nev. (B)
 Tiberti, J. A., Constr. Co., 1233 Comstock, P. O. Box 29, Las Vegas, Nev. (B)

28. NEW HAMPSHIRE

(a) ASSOCIATED GENERAL CONTRACTORS OF NEW HAMPSHIRE

President—Robt. A. Foster, Foster & Bamford, Inc., 18 N. Main St., Concord, N. H.
Executive Secretary—Rowland Oakes, 10 Acquilla Bldg., 3 Pleasant St., Concord, N. H.
Telephone: 1561

Bedders, Wm. E., Brookline, N. H. (H)
 Bisson, W. M., & Son, 28 Riverside Ct., Laconia, N. H. (B)
 Curran, Kenneth E., Inc., Littleton, N. H. (H-Hvy)
 Davison Constr. Co., 1306-A Elm St., Manchester, N. H. (B)
 Davison, David W., 449 Hayward St., Manchester, N. H. (B)
 Foster & Bamford, Inc., 18 N. Main St., Concord, N. H. (B)
 Garon Constr. Co., Inc., 623 Clay St., Manchester, N. H. (B)
 Hartford, R. R., Inc., 48 S. Willow St., Manchester, N. H. (H-Hvy)
 Harvey Constr. Co., Inc., 450 Valley St., Manchester, N. H. (B)
 Hodgdon, Edwin J., Mirror Lake, N. H. (B)
 Keyser, Leon, Co., 61 Beech St., Manchester, N. H. (B)
 Lafayette Constr. Co., North Hampton, N. H. (H)
 MacMillin Co., The, 17 Main St., Keene, N. H. (B)
 Manchester Sand, Gravel & Cement Co., Inc., 839 Elm St., Manchester, N. H. (H-Hvy)
 Maxam Co., The, 94 Hanover St., Portsmouth, N. H. (B)
 Mooney-Sweatt-Bundy Corp., 14 Silver St., Dover, N. H. (H)
 Paquette Constr. Co., 132 Bridge St., Manchester, N. H. (B)
 Robie Constr. Co., Inc., Pike Ave., Manchester, N. H. (B)
 Ross, Jas., Assos., Inc., 102½ N. Main St., Concord, N. H. (B)
 Shattuck, L. H., Inc., 449 Hayward St., Manchester, N. H. (B)
 Stebbins, Blanchard, 330 Lincoln St., Manchester, N. H. (B)
 Swanburg Constr. Corp., 61 Amherst St., Manchester, N. H. (B)
 Swett, E. D., Winchester, N. H. (H)
 Trumbull-Nelson Co., Inc., 11 Lebanon St., Hanover, N. H. (B)
 Viette, Jas. J., Littleton, N. H. (B)
 Weaver Bros. Constr. Co., 259 S. Main St., Concord, N. H. (H)

NEW HAMPSHIRE—Continued

- Whitcomb, Arthur, Constr. Co., Inc., 725 Main St., Keene, N. H. (H)
 Whitcomb, Frank W., Constr. Corp., North Walpole, N. H. (H-Hvy)

29. NEW JERSEY

(a) ASSOCIATED GENERAL CONTRACTORS OF NEW JERSEY

- President**—Angelo Villa, Villa Constr. Co., Inc., P. O. Box 149, Westfield, N. J.
General Manager—Hugh J. Connelly, 52 W. State St., Trenton 8, N. J.
Telephone: Trenton 5-6109
- Aechione Constr. Co., 1607-9 McKean St., Philadelphia, Pa. (H-Hvy)
 Agabiti Bros., Inc., 125 Swan St., Trenton, N. J. (H-Hvy)
 Alward, H. W., Inc., 161 Mt. Airy Rd., P. O. Box 926, Bernardsville, N. J. (H-Hvy)
 American Paving Corp., Foot of Bessemer St., Newark, N. J. (H)
 Arnolt Bros., Inc., 43 Carson Ave., P. O. Box 441, Metuchen, N. J. (H-Hvy)
 Atlantic County Constr. Co., Virginia & Mediterranean Aves., Atlantic City, N. J. (H-RR)
 Bancheri, Chas., 227 Central Ave., Hammon-
 ton, N. J. (H-Hvy)
 Barrett, Albert E., 530 New York Ave., Trenton 9, N. J. (H)
 Brann & Stuart Co., 771 Broad St. Sta. Bldg., Philadelphia 2, Pa. (B-H-Hvy-RR)
 Brewster, Geo. M., & Son, Inc., 275 Ft. Lee Rd., Bogota, N. J. (B-H-Hvy)
 Brookfield Constr. Co., Inc., 521 5th Ave., New York 17, N. Y. (Hvy)
 Bucks County Constr. Co., Inc., Monroe St., Pottsville, Pa. (Hvy)
 Bugbee, Newton A. K., & Co., Oakland St. & Norman Ave., Trenton 8, N. J. (B-H-Hvy)
 Burns, J. P., Box 91, Dumont, N. J. (H-Hvy)
 C & T Constr. Co., 209 Burrwood Ave., Box 12, Collingswood, N. J. (H-Hvy)
 Campanella, Edw. P., 121 S. White Horse Pike, Hammonton, N. J. (H)
 Canuso, Francis A., & Son, 173 W. Roosevelt Blvd., Philadelphia, Pa. (H-Hvy)
 Cayuga Foundation Corp., The Underwood Bldg., 30 Vesey St., New York 7, N. Y. (H-Hvy-RR)
 Chapman, J. F., & Son, Inc., 1303 N. Broad St., Hillside, N. J. (B)
 Consolidated Constr. Co., Inc., 810 Haddon Ave., Collingswood, N. J. (B-Hvy)
 Construction Aggregates Corp., 1 E. 42d St., New York, N. Y. (H)
 Construction Service Co., Lincoln Blvd., P. O. Box 311, Bound Brook, N. J. (Hvy)
 Cox, P. T., Constr. Co., Inc., 270 Broadway, New York 7, N. Y. (H-Hvy)
 Cunningham, A. J., & Sons, 370 Newkirk Ave., Trenton, N. J. (H-Hvy)
 Delta Constr. Co., National Bk. Bldg., Hope-
 well, N. J. (H)
 Domenick, Frank, & Co., Inc., 124 N. 7th St., Newark, N. J. (Hvy)
 Ell-Doror Constr. Co., 644 Nye Ave., Irvington, N. J. (B-H-Hvy)
 Ellis, A. J., Constr. Co., Inc., 4th & Courtland Sts., Philadelphia 40, Pa. (H-Hvy-RR)
 Ellis, Edw. H., & Sons, Inc., Rt. 40, Harvard Ave., Merchantville 10, N. J. (H-Hvy)
 Erie Contr. & Engr. Corp., Passaic Natl. Bk. Bldg., Passaic, N. J. (RR)
 Ferrante, Anthony, & Son, Inc., 33 Mt. Airy Rd., Bernardsville, N. J. (B-H)
 Ferry Constr. Co., 20 Boardwalk Arcade Bldg., Atlantic City, N. J. (Hvy)
 Fox, Delton T., 197 Irving Ave., Bridgeton, N. J. (B-H)
 Franklin Constr. Co., 12 Central Ave., Newark 2, N. J. (H-Hvy)
 Frapaul Constr. Co., Essex St., Box 188, Rochelle Park, N. J. (H-Hvy)
 Fritz, W. G., Co., Inc., 69 Main St., West Orange, N. J. (Hvy)
 Fusco, J. R., Inc., 20 Glenridge Ave., Montclair, N. J. (H)
 Groves, S. J., & Sons Co., Rt. 35 at Port Reading RR., P. O. Box 485, Woodbridge, N. J. (H-Hvy)
 Hansen, Ole, & Sons, Inc., 22 N. Franklin Ave., Pleasantville, N. J. (Hvy)
 Harrison, H. L., & Son, Inc., P. O. Box 240, Westfield, N. J. (H-Hvy)
 Hesse, Chas. J., Inc., Palmer St., Belford, N. J. (H)
 Holmes & English, 1465 Palisade Ave., West Englewood, N. J. (H-Hvy)
 Jaggard, R. B., Engr. Co., Highland Ave., Westmont, N. J. (H)
 Johnson, Drake & Piper, Inc., 86 Trinity Pl., New York 6, N. Y. (H-Hvy)
 Kaufman Constr. Co., Inc., 4000 Pulaski Ave., Philadelphia 40, Pa. (H)
 Kero, Peter W., Inc., 615 Newark Ave., Lyndhurst, N. J. (H-Hvy)
 Kolyn Constr. Co., 207 Commonwealth Bldg., P. O. Box 916, Trenton, N. J. (H-Hvy-RR)
 Lugano Bros., Inc., 172 Passaic Ave., Belleville 9, N. J. (H)
 Lupton, A. H., Jr., Cumberland Natl. Bk. Bldg., Bridgeton, N. J. (H)
 Mack Constr. Co., Inc., 101 Ocean St., Cape May, N. J. (B-H-Hvy)
 Malanka, C. F., & Sons, Inc., 1317 Bergenline Ave., Union City, N. J. (B-H-Hvy)
 Marsellis-Warner Corp., 10 Baldwin St., Montclair, N. J. (H)
 McGraw, Jas. Co., 1010 Commercial Trust Bldg., Philadelphia 2, Pa. (H-Hvy-RR)
 McGreevey, John F., & Co., Inc., 141 N. Main St., Manasquan, N. J. (H)
 Morehouse, E. R., Co., 1400 Pine St., Camden, N. J. (H-Hvy-RR)
 Napp-Grecco Co., The, 241 Riverside Ave., Newark 4, N. J. (H-Hvy-RR)
 Nesto Constr. Co., 100 Riverside Ave., Newark 4, N. J. (H)
 New Jersey Asphalt & Paving Co., Foot of Howell St., Jersey City, N. J. (H-Hvy)
 Nicol, Thos., & Co., R. D. Box 135, Farmingdale, N. J. (H)
 Pangia Constr. Co., White Horse Pike, Atco, N. J. (H)
 Perelli Constr. Co., Inc., 1633 Hamilton Ave., Trenton 9, N. J. (H)
 Poirier & McLane Corp., 33 W. 42d St., New York 18, N. Y. (Hvy)
 Reid Constr. Co., Inc., P. O. Box 500, Woodbridge, N. J. (H)
 Road Contr. Co. of Westfield, 714 Central Ave., Westfield, N. J. (H)
 Rogers, Jos. W., Succasunna, N. J. (H-Hvy)
 Salmon Bros., Inc., Netcong, N. J. (H-Hvy)
 Senior and Palmer, Inc., 50 Church St., New York 7, N. Y. (Hvy-RR)
 Standard Bitulithic Co., Foot of Brill St. & Passaic River, Newark 5, N. J. (H)
 Stone, Arthur E., Doughty Rd. & Reading R. R., Pleasantville, N. J. (H)
 Straco Constr. Co., 130 N. Broadway, Camden, N. J. (H-Hvy-RR)
 Union Bldg. & Constr. Corp., P. O. Box 58, Passaic, N. J. (H-Hvy)
 Union Paving Co., 1227 N. Broad St., Philadelphia, Pa. (H-Hvy)
 Utility Constr. Co., Div. of Aetna Ind. Corp., 84 Paterson St., New Brunswick, N. J. (H-Hvy)
 Versaggi Bros. Constr. Co., Wildwood, N. J. (H-Hvy)
 Villa Contr. Co., Inc., P. O. Box 149, Westfield, N. J. (H-Hvy)
 Villard Contr., Inc., 25 Main St., Hastings-on-Hudson, N. Y. (B-H-Hvy-RR)
 Warranty Paving Co., P. O. Box 425, Summit, N. J. (H)
 Waters, John N., 209 Park Pl., Audubon, N. J. (H-Hvy-RR)
 Weldon Contr. Co., 113 Central Ave., Westfield, N. J. (B-H)
 Whitmyer Bros., R.F.D. 3, Hammonton, N. J. (H)
 Wikstrom, A. S., P. O. Box 217, Skaneateles, N. Y. (H-Hvy-RR)
 Willis Constr., Branchville, Sussex Co., N. J. (H)
 Winans Contr. Co., Inc., The, 601 W. Elizabeth Ave., Linden, N. J. (H)
 Young Foundation Corp., 328 Teaneck Rd., Teaneck, N. J. (B-H-Hvy-RR)
 Zimmerman, Louis, Jr., 285 Florence Ave., Hillside 5, N. J. (B)

Local Members

- Becker Constr. Co., 361 Grove St., Newark 3, N. J. (B)
 Blanchard, Wm. L., Co., 45 Poinier St., Newark 5, N. J. (B)
 Briscoe, Frank, Co., Inc., 287 S. 19th St., Newark 3, N. J. (B)
 Brotherton, Fred J., Inc., 185 Atlantic St., Hackensack, N. J. (B)
 Douglas, Damon G., Co., 605 Broad St., Newark 2, N. J. (B)
 Hembling, Charles B., & Son, 107 Monmouth St., P. O. Box 1013, Red Bank, N. J. (B)
 Jantelle, P., Inc., 571 S. 10th St., Newark 3, N. J. (B)
 LaFountain, A. A., Inc., 161 Beech St., Hackensack, N. J. (B)
 Lewis, Anthony, Inc., 14-22 Newark Way, Maplewood, N. J. (B)

(Symbols following names indicate type of construction performed by company; B—Building; H—Highway; Hvy—Heavy; RR—Railroad.)

A.G.C. DIRECTORY

NEW JERSEY—Continued

Lucarelli, B. J., & Co., Inc., 22 Orchard St., Jersey City, N. J. (B)
 Mahony-Troast Constr. Co., Inc., 657 Main Ave., Passaic, N. J. (B)
 Malmel Construction Company, 304 Meeker Ave., Newark, N. J. (B)
 Markland, M. B., Contracting Co., Boardwalk Arcade Bldg., Atlantic City, N. J. (B-Hvy-RR)
 Matthews Construction Company, 296 Alexander St., Princeton, N. J. (B)
 Salmond, Scrimshaw Constr. Co., 526 Elm St., Arlington, N. J. (B)
 Waldron, Edward M., Incorporated, 42 Park Pl., Newark 2, N. J. (B)

30. NEW MEXICO

(a) ASSOCIATED CONTRACTORS OF NEW MEXICO

President—M. J. Wylie, Wylie Bros., 1009 N. 3d St., Albuquerque, N. Mex.
Manager—C. O. Faulk, Rm. 73, Sena Plaza, P. O. Box 1693, Santa Fe, N. Mex.
Telephone: 3-4812

Adams, Jack, P. O. Box 610, Los Alamos, N. Mex. (H)
 Allison & Haney, P. O. Box 1507, Albuquerque, N. Mex. (H-Hvy)
 Armstrong & Armstrong, Box 873, Roswell, N. Mex. (H)
 Bookout, W. T., Constr. Co., P. O. Box 298, Las Vegas, N. Mex. (H)
 Brown Constr. Co., P. O. Box 1479, Albuquerque, N. Mex. (H)
 Burn, P. R., P. O. Box 1111, Las Cruces, N. Mex. (H)
 Haake, Floyd, 1111 Lovato Lane, Santa Fe, N. Mex. (H)
 Ishell Constr. Co., Inc., Santa Rita, N. Mex. (H)
 Lowdermilk Bros., P. O. Box 501, Los Alamos, N. Mex. (H)
 Martin, G. I., 520 S. Talane, Albuquerque, N. Mex. (H)
 Miller & Smith, P. O. Box 6007, Sta. B, Albuquerque, N. Mex. (H)
 Ryan, J. H., P. O. Box 513, Albuquerque, N. Mex. (H-Hvy)
 Sharp & Fellows Contr. Co., 533 Central Bldg., Los Angeles 14, Calif. (H-Hvy)
 Silver, E. M., P. O. Box 1062, Albuquerque, N. Mex. (H)
 Skousen, D. D., 201 Springer Bldg., Albuquerque, N. Mex. (H)
 Skousen-Hise Contr. Co., 201 Springer Bldg., Albuquerque, N. Mex. (H)
 Spencer & Co., P. O. Box 350, Sena Plaza, Santa Fe, N. Mex. (H)
 Thygesen, Henry, & Co., P. O. Box 876, Albuquerque, N. Mex. (H)
 Wheeler & Trotz, 2129 E. Lead Ave., Albuquerque, N. Mex. (H)
 Wylie Bros., 1009 N. 3d St., Albuquerque, N. Mex. (H)

(b) NEW MEXICO BUILDING BRANCH

President—R. B. Clough, Clough & King Constr. Co., 924½ N. 11th, Albuquerque, N. Mex.
Manager—Alva J. Coats, 224 N. Montclair Ave., P. O. Box 426, Albuquerque, N. Mex.
Telephone: 5-2736

Beck-Utah-Hopkins, P. O. Box 8218, Albuquerque, N. Mex. (B)
 Bradbury, O. G., 1217 N. 1st St., P. O. 1628, Albuquerque, N. Mex. (B)
 Brunetta, Dan, 802 W. Aztec, Box 68, Gallup, N. Mex. (B)
 Clough & King Constr. Co., 924½ N. 11th, Albuquerque, N. Mex. (B)
 Cooper, W. M., 607 E. Palace Ave., Santa Fe, N. Mex. (B)
 Cottle, L. W., 1308 Ross St., Box 831, Clovis, N. Mex. (B)
 Craftsmen Constr. Co., Inc., The, 750 Cerrillos Rd., P. O. Box 1651, Santa Fe, N. Mex. (B)
 Daum, R. J., Constr. Co., 400 S. Wyoming St., P. O. Box 233, Albuquerque, N. Mex. (B)
 Gilchrist Constr. Co., Carver Bldg., P. O. Box 868, Las Cruces, N. Mex. (B)
 Griggs, Raymond, 217 Connelly, P. O. Box 781, Clovis, N. Mex. (B)
 Haddock Engrs., Ltd., P. O. Box 1691, Santa Fe, N. Mex. (B-H-Hvy-RR)
 Holloway Co., The, P. O. Box 84, Albuquerque, N. Mex. (B)
 House, K. L., Constr. Co., Inc., 214 E. Marquette, P. O. Box 755, Albuquerque, N. Mex. (B)
 Hughes, H. D., 405 N. Virginia Ave., Roswell, N. Mex. (B)
 Kiewit, Peter, Sons' Co., Sta. A, P. O. Box 4113, Albuquerque, N. Mex. (B-H-Hvy-RR)
 Lembke Constr. Co., Inc., P. O. Box 144, Albuquerque, N. Mex. (B)
 Lineberry Bldg. Contrs., 227 Anita Pl., Santa Fe, N. Mex. (B)
 Mauldin, L. M., Constr. Co., 600 S. Oak, P. O. Box 347, Albuquerque, N. Mex. (B)
 Maxey & Leftwich, P. O. Box 4091, Sta. A, Albuquerque, N. Mex. (B)
 McKee, Robt. E., P. O. Box 1706, Santa Fe, N. Mex. (B)
 Patrick, S. V., Constr. Co., 317 E. Marquette, P. O. Box 751, Albuquerque, N. Mex. (B)
 Roach Constr. Co., 4612 E. Marquette Ave., Albuquerque, N. Mex. (B)
 S & W Constr. Co., Inc., 131 E. Las Cruces, P. O. Box 311, Las Cruces, N. Mex. (B)
 Testman, John T., 2443 Floral Dr., Albuquerque, N. Mex. (B)
 Utah Constr. Co. & C. H. Leavell & Co., P. O. Box 298, Los Alamos, N. Mex. (B-Hvy)
 Valley Bldg. Co., 131 W. Walnut St., Roswell, N. Mex. (B)
 Vasey Constr. Co., 910 N. Alameda St., Carlsbad, N. Mex. (B)
 Vinson Constr. Co., P. O. Box 269, Los Alamos, N. Mex. (Hvy)
 Whitmore, S. E., 3612 E. Silver Ave., Albuquerque, N. Mex. (B)

31. NEW YORK

(a) BUFFALO CHAPTER

President—Park L. Metzger, Metzger Constr. Corp., 429 Carlton St., Buffalo 11, N. Y.
Secretary—Richard C. O'Keefe, Jr., 513 Prudential Bldg., Buffalo 2, N. Y.
Telephone: Washington 2340

Bremer, C. C., & Co., 2576 Seneca Ave., Niagara Falls, N. Y. (B)
 Cowper, John W., Co., Inc., The, 405 Sidway Bldg., Buffalo 3, N. Y. (B)
 Darling, Herbert F., 131 California Dr., Williamsport 21, N. Y. (Hvy)
 Guenther, Gaylord S., & Co., Inc., 1887 Cleveland Ave., Niagara Falls, N. Y. (B)
 Hendrich, W. F., Co., Inc., The, 775 Main St., Buffalo 3, N. Y. (B)
 International Chimney Corp., 408 Wickwire Bldg., Buffalo 2, N. Y. (B)
 Johnson, Walter S., Bldg. Co., Inc., Hyde Park Blvd., Niagara Falls, N. Y. (B)
 Laur & Mack Contr. Co., Inc., P. O. Box 563, Niagara Falls, N. Y. (B)
 Metzger Constr. Corp., 429 Carlton St., Buffalo 11, N. Y. (B-Hvy)
 Scruferi Constr. Co., Inc., 3925 Hyde Park Blvd., Niagara Falls, N. Y. (B)
 Shirley-Herman Co., Inc., 1807 Elmwood Ave., Buffalo 7, N. Y. (B)
 Stimm, H. F., Inc., 693 Ellicott Sq. Bldg., Buffalo, N. Y. (B-Hvy-RR)
 Walker, Geo. W., & Sons, Inc., 770 Elmwood Ave., Buffalo 9, N. Y. (B)
 Wright & Kremers, Inc., Pine Ave. & Main St., Niagara Falls, N. Y. (B)

(c) METROPOLITAN BUILDERS ASSOCIATION OF NEW YORK CITY

President—A. E. Budell, Industrial Engr. Co., 50 Church St., New York City 7
Secretary-Treasurer—W. J. Barney, Jr., W. J. Barney Corp., 101 Park Ave., New York City 17
Telephone: Lexington 2-2720

Barney, W. J., Corp., 101 Park Ave, New York City 17 (B)
 Barr, Gleason & Barr, Inc., 145 E. 32d St., New York City 16 (B)
 Brady, John T., & Co., Inc., 606 W. 47th St., New York City 19 (B)
 Caye Constr. Co., Inc., 356 Fulton St., Brooklyn 1, N. Y. (B)
 Corning, Edw., Co., 204 E. 39th St., New York City 16 (B)
 Crawford, Wm., Inc., 7 E. 42d St., New York City 17 (B)
 Crow, Wm. L., Constr. Co., 101 Park Ave., New York City 17 (B)
 Driscoll, Geo. F., Co., 41 E. 42d St., New York City 17 (B)
 Eisele, John H., Co., Inc., 18 E. 41st St., New York City 17 (B)
 Fuller, George A., Company, Fuller Bldg., 597 Madison Ave., New York City 22 (B)
 Grove Shepherd Wilson & Kruge, Inc., 247 Park Ave., New York City 17 (B)
 Hegeman-Harris Co., Inc., 331 Madison Ave., New York City 17 (B)

NEW YORK—Continued

- Industrial Engr. Co., 50 Church St., New York City 7 (B)
- Kennedy, John, & Co., 205 E. 42d St., New York City 17 (B)
- Kidde, Walter, Constrs., Inc., 140 Cedar St., New York City 6 (B)
- Lowry, John, Inc., 52 Vanderbilt Ave., New York City 17 (B)
- Nicholson Co., Inc., The, 10 Rockefeller Plaza, New York City 20 (B)
- Psaty & Fuhrman, Inc., 369 Lexington Ave., New York City 17 (B)
- Rheinstein Constr. Co., Inc., 21 E. 40th St., New York City 17 (B)
- Ryan Contr. Corp., 341 E. 79th St., New York City 21 (B-Hvy)
- Stewart, James, & Co., Inc., 230 Park Ave., New York City 17 (B)
- Thompson-Starrett Co., Inc., 444 Madison Ave., New York City 22 (B)
- Turner Construction Co., Graybar Bldg., 420 Lexington Ave., New York City 17 (B)
- Vermilya-Brown Company, Inc., 100 E. 42d St., New York City 17 (B)
- White Constr. Co., Inc., 95 Madison Ave., New York City 16 (B)
- (d) NEW YORK STATE CHAPTER, INC.**
- President—H. G. Dixon, Johnson, Drake & Piper, Inc., 86 Trinity Pl., New York 6, N. Y.**
- Managing Director—William M. Lees, DeWitt Clinton Hotel, Albany 7, N. Y.**
- Telephone: 3-2486**
- Addazio Contr. Co., Inc., Oyster Bay, Long Island, N. Y. (H)
- Arborio, John, Inc., W. Cedar St., Poughkeepsie, N. Y. (H)
- Arute Bros., Inc., 560 S. Main St., New Britain, Conn. (H)
- Arzani, Victor C., Contr. Co., 2507 James St., Syracuse, N. Y. (H)
- Asphalt Roadways Co., 1766 Main St., Buffalo, N. Y. (H)
- Baughman & Blair, Rt. 246, E. Henrietta Rd., Rochester 7, N. Y. (H)
- Bellardino, John, Inc., Canal St., Seneca Falls, N. Y. (H)
- Bero Engr. & Constr. Corp., 305 McKinley Bldg., 259 Delaware Ave., Buffalo 2, N. Y. (H)
- Bianchi, Carlo, & Co., Inc., 24 Union Ave., Framingham, Mass. (H-Hvy-RR)
- Binghamton Constr. Co., Inc., Marine Midland Bldg., Binghamton, N. Y. (H-Hvy)
- Blades, A. L., & Sons, 42 Broadway, Hornell, N. Y. (H)
- Bunce, H. E., Box 270, Waverly, N. Y. (H)
- Cable Guide Rail Constr. Co., 21-23 Gould Ave., Depew, N. Y. (H)
- Cady, Wm. J., & Co., P. O. Box 434, Amsterdam, N. Y. (H)
- Christiana, Vernon, Jr., 605 Pleasant St., Utica, N. Y. (H)
- Circle Constr. Corp., Brockway Pl., White Plains, N. Y. (H)
- City Constr. Co., 640 Jay St., Utica 2, N. Y. (H)
- Cold Spring Constr. Co., 3 Jackson St., Akron, N. Y. (H-Hvy)
- Collins Bros., Mechanicville, N. Y. (H)
- Collins, Wm. L., 212 Main St., Hornell, N. Y. (H)
- Coluccio, Thos. F., & Sons, 228 S. Washington St., Rome, N. Y. (H)
- Corbisello, N. R., P. O. Box 45, Binghamton, N. Y. (H)
- County Asphalt, Inc., Tarrytown, N. Y. (H)
- Croissant, F. J., Antwerp, N. Y. (H)
- Dale Engr. Co., 404 Court St., Utica, N. Y. (H)
- Dan Bar Contr. Co., Inc., 220 Pulawski St., Syracuse, N. Y. (H)
- Davis Constr. Co., Charlotte Ave., Hicksville, N. Y. (B-H)
- DeLia, Elis G., & Co., Paris Rd., New Hartford, N. Y. (H)
- Depew Paving Co., Inc., 4955 Broadway, Depew, N. Y. (H)
- Dougherty, A. L., Co., 403 Guaranty Bldg., Indianapolis 4, Ind. (H)
- Dutcher Constr. Corp., Queenstown, Md. (H)
- Eagle Contrs. of Utica, Inc., P. O. Box 324, Utica, N. Y. (H)
- Elmhurst Contr. Co., Inc., 53-09 97th Pl., Corona, L. I., N. Y. (H)
- Fitzgerald Bros. Constr. Co., Inc., Proctor Bldg., Troy, N. Y. (H)
- Foley, Robt. E., Constr. Corp., 43 Griswold St., Binghamton, N. Y. (H)
- Gessler Contr. Co., Inc., P. O. Box 12, Eastwood Sta., Syracuse, N. Y. (H)
- Good Roads Engr. & Contr. Co., Inc., Burns Ave., Wantagh, N. Y. (H-Hvy)
- Grandview Constr. Corp., The, 740 S. Fulton Ave., Mt. Vernon, N. Y. (H)
- Green Island Constr. Co., 594 Broadway, Watervliet, N. Y. (H)
- Greene, Wm. H., Westbury, N. Y. (H)
- Groves, S. J., & Sons Co., 19 Rector St., New York, N. Y. (H)
- Harrison & Burrowes, Inc., 507 Summit Ave., Jersey City, N. J. (H)
- Harvey, John J., Co., 38 Campion Rd., New Hartford, N. Y. (H)
- Hendrickson Bros., Inc., 63 N. Central Ave., Valley Stream, N. Y. (H)
- Holmes & Murphy, Orchard Park, N. Y. (H)
- Hopkins, Richard, Co., Box 1025, Albany, N. Y. (H-Hvy-RR)
- Howes & Farrell, Inc., Box 85, Oneida, N. Y. (H)
- Hubbell, O. W., Oneida St., New Hartford, N. Y. (H)
- Hudson River Constr. Co., 75 State St., Albany, N. Y. (H)
- Irwin, John, Contr. Co., Inc., The, P. O. Box 376, Lockport, N. Y. (H)
- Johns Bros. Constr. Co., Inc., 38 Hall St., Binghamton, N. Y. (H)
- Johnson, Drake & Piper, Inc., 86 Trinity Pl., New York 6, N. Y. (H)
- Kelleher Corp., 35 Walnut St., Turners Falls, Mass. (H)
- Kranz, M., Engr. & Constr. Co., 447 Ft. Washington Ave., New York 33, N. Y. (H)
- LaBarge Bros. Co., Inc., 355 Collidge Ave., Syracuse, N. Y. (H)
- Lane Constr. Corp., The, 37 Colony St., Meriden, Conn. (H)
- Law Bros. Co. & A. J. Leaf, 200 N. Main St., Herkimer, N. Y. (H)
- Lee, L. S., & Son, Oaks Corners, N. Y. (H)
- Lewis & McDowell, Inc., 285 Madison Ave., New York, N. Y. (H)
- Longhi, Louis, & Son, Box 580, Glens Falls, N. Y. (H)
- MacNamee, Daniel F., & Co., Inc., 271 North Ave., New Rochelle, N. Y. (H)
- Madison County Constr. Co., Inc., Madison, N. Y. (H)
- Mauger-Smith, Inc., 8 E. Long St., Columbus 15, Ohio (H)
- Mayersohn, Louis, 36 State St., Albany, N. Y. (H-Hvy-RR)
- McLain Constr. Corp., 275 Mayville Ave., Buffalo, N. Y. (H)
- Mid-State Bldrs., Inc., 622 South St., Utica, N. Y. (H)
- Mohawk Paving Co., Box 653, Geneva, N. Y. (H)
- Moore, Harold B., Windham, N. Y. (H)
- Mullins, John M., Inc., 2364 Burdett Ave., Troy, N. Y. (H)
- Murray, C. D., Co., Inc., 701 Westcott St., Syracuse, N. Y. (H)
- Oneiglia & Gervasini, P. O. Box 687, Torrington, Conn. (H)
- Ottaviano, A. E., Inc., 80 Brooks St., Croton-on-Hudson, N. Y. (H)
- Parlor City Constr. Co., 30 Odell Ave., Endicott, N. Y. (H)
- Pasquale Constr. Co., 311 Cornell Ave., Endicott, N. Y. (H)
- Peckham Road Corp., 50 Harlem Ave., White Plains, N. Y. (H)
- Potter-DeWitt Corp., Pavilion, N. Y. (H)
- Provo Bros., Inc., Corner Oswego & W. Hia-watha Blvd., Syracuse, N. Y. (H-Hvy)
- Riegel, A. V., Inc., 130 Oakley Ave., White Plains, N. Y. (H)
- Salina Constr. & Supply Co., Inc., 1207 Milton Ave., Syracuse, N. Y. (H)
- Savin Constr. Corp., The, East Hartford, Conn. (H)
- Scullen, S. A., P. O. Box 362, Waterford, N. Y. (H-Hvy-RR)
- Serafini Constr. Co., Inc., R. D. 1, Conklin Rd., Binghamton, N. Y. (H)
- Smith, Ed., Engr. & Constr. Co., 209 Strathmore Dr., Syracuse, N. Y. (H)
- Strandberg, L. B., & Sons Co., Inc., 608 S. Dearborn St., Chicago 5, Ill. (H)
- Strong, "Lee", Constr. Co., Box 28, Whitney Point, N. Y. (H)
- Suits, Harry J., Watkins Glen, N. Y. (H)
- Talarico Contr. Corp., Herkimer, N. Y. (H)
- Torpey, Michael J., Inc., 50-07 49th St., Woodside, N. Y. (H)
- Triple Cities Constr. Co., Inc., 17 Tompkins St., Binghamton, N. Y. (H)
- Tuckahoe Constr. Co., Inc., 116 Columbus Ave., Tuckahoe, N. Y. (H)
- Tully & Dinapoli, Inc., 127-50 Northern Blvd., P. O. Box 145, Flushing, N. Y. (H)
- Van Kleeck, Wm., New Paltz, N. Y. (H)
- Ward, C. P., Inc., 700 Hollenbeck St., Rochester, N. Y. (H)
- Warren Bros. Roads Co., 38 Memorial Dr., Cambridge, Mass. (H)
- Whitmore, C. B., Co., 36 Market St., Lockport, N. Y. (H)

(Symbols following names indicate type of construction performed by company; B—Building; H—Highway; Hvy—Heavy; RR—Railroad.)

A.G.C. DIRECTORY

NEW YORK—Continued

Wikstrom, A. S., P. O. Box 217, Skaneateles, N. Y. (H)
 Wilkes Contr. Corp., 1372 E. Delavan Ave., Buffalo 15, N. Y. (H)
 Winkelman, D. W., Co. Inc., 205 Harrison St., Syracuse 2, N. Y. (H)
 Zara Contr. Co., Inc., 15 Prospect Ave., Hewlett, L. I., N. Y. (H)

Local Members

Adirondack Construction Corporation, 179 Glen St., Glens Falls, N. Y. (B-Hvy)
 Barney, W. J., Corp., 101 Park Ave., New York 17, N. Y. (B)
 Brown, Thomas C., Company, Inc., P. O. Box 982, Schenectady, N. Y. (B-Hvy)
 Healy, S. A., Company, 61 Westchester Ave., White Plains, N. Y. (Hvy)
 Ruddy, Bart J., Inc., 1147 Mohawk St., Utica, N. Y. (B-H)
 Senior and Palmer, Inc., 50 Church St., New York 7, N. Y. (Hvy-RR)
 Spencer, White & Prentiss, Inc., 10 E. 40th St., New York, N. Y. (Hvy)
 Stanley, Walter A., Constr. Co., Inc., 23 Railroad Ave., Ossining, N. Y. (B)

32. NORTH CAROLINA SOUTH CAROLINA

(a) CAROLINAS BRANCH

President—H. S. Crain, Crain & Denbo, Inc., 205-B Snow Bldg., P. O. Box 969, Durham, N. C.
 Managing Director—Robert Patten, P. O. Box 1459, 405-9 Builders Bldg., Charlotte 1, N. C.
 Telephone: 3-3731-23

Columbia Service Office, Builders Bldg., 1639 Blanding St., P. O. Box 5325, Columbia, S. C.—Mrs. Margaret Ballenger, Secretary
 Telephone: 2-4331

Greensboro Service Office, Rm. 9, Long Bldg., 115 Church St., Greensboro, N. C.—Miss Carolyn Owens, Secretary
 Telephone: 4-4311

Raleigh Service Office, Mezzanine Fl., Hotel Sir Walter, Raleigh, N. C.—Miss Elizabeth Hayes, Secretary
 Telephone: 4-3479

Abrams Constr. Co., 414 N. Elm St., Greensboro, N. C. (B)
 Alcott Constr. Co., 218 E. Hampton St., Sumter, S. C. (B)
 Alward, H. W., Inc., 161 Mt. Airy Rd., P. O. Box 926, Bernardsville, N. J. (H-Hvy)
 Ames & Webb, Inc., P. O. Box 4001, Broad Creek Village Sta., Norfolk 2, Va. (H)
 Angle, Chas. W., Inc., Piedmont Bldg., P. O. Box 1739, Greensboro, N. C. (B)
 Asheville Contr. Co., P. O. Box 5119, Biltmore Sta., Asheville, N. C. (H)
 Asheville Paving Co., Box 7068, Asheville, N. C. (H)
 Ashmore Bros., Inc., Box 2084, Greenville, S. C. (H)

Askins, C. B., Blanding St., Lake City, S. C. (B)
 Atlantic Bitulithic Co., 1400 Roseneath Rd., Richmond 21, Va. (H)
 Atlantic Bldg. Co., Inc., 501 E. Morehead St., Box 3345, Charlotte, N. C. (B)
 Atlantic Bldg. Corp., 1735 Pinehurst Rd., P. O. Box 656, Columbia, S. C. (B)
 Avery Lumber Co., Inc., Sumter, S. C. (B)
 Bailey-Brazell Constr. Co., Inc., 204 Stokes Bldg., Box 386, Greenville, S. C. (B-Hvy)
 Baker, W. E., Constr., Box 909, Sprunt St., West Durham, N. C. (B)
 Ballenger Paving Co., Box 1046, Greenville, S. C. (H)
 Ballou Constr. Co., 1603 McMillan Ave., Lumberton, N. C. (B)
 Barger Constr. Co., Inc., Box 30, 222 N. Main St., Mooresville, N. C. (B)
 Barge-Thompson Co., 136 Ellis St., N. E., Atlanta 3, Ga. (B)
 Barnes, H. D., Inc., 233½ N. Greene St., P. O. Box 2408, Greensboro, N. C. (B-Hvy)
 Barnhill & Long, Inc., Tarboro, N. C. (H-Hvy)
 Barringer Bros., Box 50, Richfield, N. C. (H)
 Barrus Constr. Co., Box 395, 1st Citizens Bk. Bldg., Kinston, N. C. (H)
 Bartholomew, B. W., Piedmont Bldg., Charlotte 2, N. C. (B)
 Bennett, C. T., Constr. Co., Box 29, Kings Mountain, N. C. (B)
 Blankenship Bros., 2217 S. Tryon St., P. O. Box 3150, Dilworth Sta., Charlotte, N. C. (H-Hvy)
 Blum, Frank L., & Co., P. O. Box 2253, 860 W. 4½ St., Winston-Salem, N. C. (B)
 Blythe Bros. Co., 2911 Hutchinson Ave., P. O. Box 989, Charlotte 1, N. C. (B-H-Hvy)
 Blythe & Isenhour, Box 614, 133 Brevard Ct., Charlotte, N. C. (B)
 Bouligny, R. H., Inc., 433 W. Morehead St., P. O. Box 2115, Charlotte 1, N. C. (Hvy)
 Bowe Contr. Co., Inc., 540 Reynolds St., Augusta, Ga. (H)
 Bowers Constr. Co., 805 W. South St., P. O. Box 1706, Raleigh, N. C. (H)
 Boyd & Goforth, Inc., Pineville Rd., Box 2072, Charlotte, N. C. (B-Hvy)
 Boyle Constr. Co., 30 E. Liberty St., P. O. Box 471, Sumter, S. C. (B-H-Hvy)
 Bradshaw, L. S., & Sons, P. O. Box 1099, E. Franklin at Southern R.R., Salisbury, N. C. (B-H)
 Brewer, N. E., Co., 8 W. 3d St., Box 2860, Winston-Salem, N. C. (Hvy)
 Bridges, E. C., Box 9, Heath Springs, S. C. (H-Hvy)
 Brinkley, E. P., 936 Cowper Dr., Raleigh, N. C. (H)
 Brinkley, John H., 505 Lexington Ave., Box 468, Thomasville, N. C. (H)
 Brinkley, W. F., & Son Constr. Co., Inc., Box 595, Granite Quarry, N. C. (H)
 Brissey Lumber Co., The, Box 782, Anderson, S. C. (B)
 Brown Paving Co., P. O. Box 484, Lexington, N. C. (H-Hvy)
 Bryan, J. N., & Son, 1305 Hillsboro St., Raleigh, N. C. (B)

Bumgarner's Constr. Co., Rt. 1, Conover, N. C. (B)
 Burge, Floyd S., Constr. Co., 406 Dean St., Box 125, Salem Sta., Winston-Salem, N. C. (B)
 Burton, A. B., Co., Inc., Box 817, Lynchburg, Va. (H)
 Carolina Contr. Co., Inc., 1042 Adeline Rd., P. O. Box 5306, Columbia D, S. C. (H-Hvy)
 Carpenter, R. E., & Co., P. O. Box 85, Rutherfordton, N. C. (B-Hvy)
 Carper & Perryclear, Christiansburg, Va. (Hvy)
 Carter, A. G., Jr., Box 421, Whiteville, N. C. (B)
 Carter-Miot Constr. Co., 943 Harden St., P. O. Box 212, Columbia, S. C. (B)
 Cecil, J. K., & Son, Greensboro Rd., Box 169, Lexington, N. C. (H-Hvy)
 Cecil's, Inc., P. O. Box 1895, 290 W. Henry St., Spartanburg, S. C. (B)
 Chandler Bros., Inc., Box 5, Virgilina, Va. (H)
 Cherokee, Inc., P. O. Box 1296, Sumter Hwy., Columbia, S. C. (H-Hvy)
 Clancy Constr. Co., 1918 Hillsboro St., Raleigh, N. C. (B)
 Clark Constr. Co., Greenville, N. C. (H-Hvy)
 Claussen-Lawrence Constr. Co., 1394 Gwinnett St., Box 840, Augusta, Ga. (B-H-Hvy)
 Cleckley, J. F., & Co., P. O. Box 209, Orangeburg, S. C. (H)
 Cleckley & McGee, Inc., Orangeburg, S. C. (B)
 Cline, F. D., Constr. Co., P. O. Box 349, 6-8 E. Davis St., Raleigh, N. C. (H-Hvy)
 Coates Constr. Co., P. O. Box 443, Florence, S. C. (H-Hvy)
 Coble, H. L., Constr. Co., Inc., P. O. Box 2040, 1705 Battleground Ave., Greensboro, N. C. (B)
 Coble, Jesse M., Sedgefield, Box 664, Greensboro, N. C. (H-Hvy)
 Coe, J. L., Constr. Co., 508 Bldrs. Bldg., P. O. Box 1881, Charlotte, N. C. (B)
 Coggins Constr. Co., Inc., 305 Brooks Ave., Raleigh, N. C. (B)
 Cole & Crumpacker, 1914 Perry St., P. O. Box 38, West Durham, N. C. (B)
 Coltrane-Graham Constr. Co., 245 S. Hamilton St., P. O. Box 1767, High Point, N. C. (B)
 Congaree Constr. Co., 2103½ Blossom St., Columbia, S. C. (B)
 Conner, Frank H., Co., 711 S. Tryon St., P. O. Box 1031, Charlotte, N. C. (B)
 Connor, J. Robt., 209 E. Burton St., High Point, N. C. (B)
 Cooper, S. E., P. O. Box 1631, Wilmington, N. C. (H)
 Coulter & Co., 813 Harden St., Columbia 5, S. C. (B)
 Cox, L. P., Co., 115 W. Main St., P. O. Box 188, Sanford, N. C. (B)
 Craig, John W., P. O. Box 6124, Charlotte, N. C. (B)
 Craig-Roberson Constr. Co., 1610 Westminster Dr., Columbia, S. C. (B)
 Crain & Denbo, Inc., P. O. Box 969, 205-8 Snow Bldg., Durham, N. C. (B)

CAROLINAS—Continued

- Creed, Geo. A., & Son, 1618 Sumter St., Columbia, S. C. (B)
- Cromer & Sullivan Constr. Co., 508 Fair St., Box 754, Anderson, S. C. (B)
- Crosby Constr. Co., Inc., P. O. Box 282, Union, S. C. (B-Hvy)
- Crosland Constr. Co., 1623 Harden St., Columbia 59, S. C. (B)
- Crouch, M. G., Lumber Co., P. O. Box 816, Hickory, N. C. (B)
- Crowder Constr. Co., 1317 E. 4th St., Box 71, Charlotte, N. C. (H-Hvy)
- Cunningham-Waters Constr. Co., Inc., Box 325, Greer, S. C. (B)
- Dale, W. E., Constr. Co., P. O. Box 393, Morganton, N. C. (B)
- Daniel Constr. Co., Inc., P. O. Box 2286, 429 N. Main St., Greenville, S. C. (B)
- Darlington Constr. Co., Inc., W. Broad St., Box 52, Darlington, S. C. (B)
- Davis, E. L., Co., P. O. Box 149, Beaufort, N. C. (B)
- Delk, W. B., 118½ N. Main St., High Point, N. C. (B)
- Dickerson, Inc., P. O. Box 448, Monroe, N. C. (B-H-Hvy)
- Dillard, Wm. B., P. O. Box 236, Sylva, N. C. (B)
- Dixon Constr. Co., 1001-2 1st Citizens Bk. Bldg., P. O. Box 1048, Fayetteville, N. C. (B)
- Dotterer Engr. Co., 12 Exchange St., P. O. Box 495, Charleston, S. C. (B-Hvy)
- Durham Elec. Constr. Co., Inc., 113 Orange St., Durham, N. C. (Hvy)
- East Carolina Constr. Co., P. O. Box 83, Dunn, N. C. (B-Hvy)
- Eastern Constr. Co., 720 N. Church St., Box 1131, Rocky Mount, N. C. (Hvy)
- Edwards, J. C., Box 197, Orangeburg, S. C. (H-Hvy)
- Eidson Constr. Co., P. O. Box 495, Mocksville, N. C. (H)
- Elliott Bldg. Co., Box 400, Hickory, N. C. (B-Hvy)
- Elmore Constr. Co., Box 133, Catawba, N. C. (B)
- Eure, N. F., Box 209, Beaufort, N. C. (B-H-Hvy)
- Evans Constr. Co., Box 350, Kinston, N. C. (B-Hvy)
- Fine, W. M., P. O. Box 26, Spartanburg, S. C. (B)
- Fiske-Carter Constr. Co., P. O. Box 1251, 200 Dunbar St., Spartanburg, & P. O. Box 480, Masonic Temple, Greenville, S. C. (B-Hvy)
- Foard, Edison, 301 Price Bldg., Charlotte, N. C. (B)
- Foard, Ernest, 210 Piedmont Bldg., Charlotte 2, N. C. (B)
- Foster, W. A., Constr. Co., P. O. Box 1334, 704 S. Church St., Burlington, N. C. (B)
- Fowler-Jones Constr. Co., 510 Reynolds Bldg., Winston-Salem 3, N. C. (B)
- Fulk & Needham, Pilot Mountain, N. C. (B)
- Fuller & Julien, Inc., Box 6066, 3125 Eton Rd., Raleigh, N. C. (H)
- Gallant, C. W., Inc., 206 Latta Arcade, Charlotte, N. C. (H-Hvy)
- Gallimore, L. B., 508 Jackson St., P. O. Box 117, Greensboro, N. C. (B)
- General Constr. Co., 1815 Blanding St., Columbia, S. C. (B)
- General Contr. Co., 509 Peoples Bldg., Charleston, S. C. (B)
- General Engr. Corp., Box 1168, Florence, S. C. (B)
- Gibson, John H., 1112 Arnette Ave., P. O. Box 29, Durham, N. C. (B)
- Gilbert Engr. Co., Inc., Box 828, 638 S. Meeting St., Statesville, N. C. (B-H-Hvy)
- Glenn Constr. Co., 916 Liberty Life Bldg., P. O. Box 598, Charlotte, N. C. (H-Hvy)
- Godley-Hinnant, Inc., 715 S. 16th St., Box 1263, Wilmington, N. C. (B)
- Goode Constr. Corp., 201 Builders Bldg., P. O. Box 666, Charlotte, N. C. (B)
- Graham, W. E., & Sons, Box 268, Cleveland, N. C. (H)
- Grannis & Sloan, Inc., 1110½ Hay St., Drawer 3006, Fayetteville, N. C. (H)
- Gregory, J. M., P. O. Box 332, 706 Odd Fellows Bldg., Raleigh, N. C. (H-Hvy)
- Grigg & Arthur Constr. Co., Inc., Box 1296, 246 Piedmont St., Reidsville, N. C. (B)
- Guest, C. M., & Sons, Box 829, Anderson, S. C. & Box J-1, Jefferson Standard Bldg., Greensboro, N. C. (B-Hvy)
- Guion, A. H., & Co., Box 1188, Wilkinson Blvd., Charlotte 1, N. C. (B-Hvy)
- Hait, C. M., & Son, 1325 E. 4th St., Charlotte, N. C. (B)
- Hand, W. H., & Son, Box 392, Belmont, N. C. (B)
- Hardaway Contr. Co., Box 1360, Columbus, Ga. (B-H-Hvy)
- Hardison, J. T., & Son, Box 166, Washington, N. C. (B)
- Harlee-Quattlebaum Constr. Co., 1301 W. Palmetto St., Florence, S. C. (B)
- Harrison Construction Company, 1101 Western Ave., Pittsburgh 33, Pa. (B-H-Hvy)
- Hawkins, Neal, P. O. Box 548, E. Main & S. Avon Sts., Gastonia, N. C. (H-Hvy)
- Hayes, R. E., 2862 Adams St., Wilmington, N. C. (B)
- Haynes, Chas. C., Jr., Constr. Co., Inc., Hillsboro St., P. O. Box 205, West Durham, N. C. (B)
- Haynsworth, T. B., Jr., 210 W. Cedar St., Florence, S. C. (B)
- Herman-Sipe & Co., Inc., P. O. Box 306, Conover, N. C. (B)
- Herrin, C. A., 926 Urban Ave., Durham, N. C. (B)
- Heslep, John C., Box 934, No. 3, South Carolina Bk. Bldg., Columbia 5, S. C. (B)
- Hester, E. F., Rt. 7, Greensboro, N. C. (H)
- Hickory Constr. Co., Inc., Box 812, Union Sq., Hickory, N. C. (B)
- Hicks, R. C., 324 Piedmont Bldg., Charlotte 2, N. C. (B)
- Higgins, V. B., Co., P. O. Box 1529, Jefferson Standard Bldg., Greensboro, N. C. (Hvy)
- Hill, J. S., Constr. Co., N. Market St., Box 122, Washington, N. C. (H)
- Hines, E. H., Constr. Co., P. O. Box 924, Greenwood, S. C. (B-H-Hvy)
- Holt, Heenan, Box 109, Graham, N. C. (B)
- Homewood, Roy M., P. O. Box 150, Chapel Hill, N. C. (H-Hvy)
- Houser, T. F., 33 London Rd., P. O. Box 5178, Biltmore Sta., Asheville, N. C. (H)
- Howard Constr. Co., Inc., 739 Winston St., Box 3094, Greensboro, N. C. (Hvy)
- Hubbard Constr. Co. of S. C., Inc., Drawer 780, S. Main St., Marion, S. C. (H-Hvy)
- Hunt Constr. Co., Inc., 3503 Roxboro Rd., P. O. Box 8008, North Durham, N. C. (B)
- Industrial Bldrs., Inc., P. O. Box 52, Anderson, S. C. (B-Hvy)
- Interstate Constr. Co., 211 Atherton St., P. O. Box 3064, Charlotte, N. C. (B)
- Jenkins Bros. Constr. Co., 1619 Oberlin Rd., Box 6082, Raleigh, N. C. (H)
- Johnson & Geddes, 401 Rowan St., P. O. Box 3217, Fayetteville, N. C. (B-H-Hvy)
- Jones Bros. & Co., Box 1454, 417 Lodge St., Wilson, N. C. (B)
- Jones, J. A., Constr. Co., Inc., 209 W. 4th St., P. O. Box 966, Charlotte 1, N. C. (B-Hvy)
- Kahn, M. B., Constr. Co., 1113 Blossom St., P. O. Box 595, Columbia 6, S. C. (B-Hvy)
- Kane, Geo. W., 111 Corcoran St. Bldg., Durham, N. C. (B)
- Kaylor, John R., Rt. 1, Gastonia, N. C. (B)
- Kenyon, Worth D., Constr. Co., Inc., 813 Capital Club Bldg., Raleigh, N. C. (B)
- Kiker & Yount, Inc., Box 330, 225 W. Morehead St., Reidsville, N. C. (H)
- King-Hunter, Inc., P. O. Box V-2, 1421 Westover Ter., Greensboro, N. C. (B)
- Kirkpatrick, R. F., & Sons, Church St., Box 638, Burlington, N. C. (B)
- Kiziah, J. H., Hwy. N-127, Box 2322, Hickory, N. C. (B)
- Knight, Inc., 209½ Morehead St., P. O. Box 839, Reidsville, N. C. (H-Hvy)
- Kraft & Newell, P. O. Box 262, Florence, S. C. (B-H-Hvy)
- Lambeth Constr. Co., Box 1102, 1071 Retreat Co., Greensboro, N. C. (H-Hvy)
- Lavender Bros., Box 2, Earl, N. C. (H)
- Laxton Constr. Co., Inc., 127 Brevard Ct., P. O. Box 2114, Charlotte 1, N. C. (B)
- Lee Constr. Co., Power Bldg., Box 1378, Charlotte, N. C. (B-Hvy)
- Lee, Robt., Inc., Box 417, Manning, S. C. (H-Hvy)
- Lewis & Bowman, Inc., 12 Edwards Bldg., P. O. Box 743, Goldsboro, N. C. (Hvy)
- Little Constr. Co., Inc., 703 Builders Bldg., Box 1053, Charlotte, N. C. (B)
- Loving, T. A., & Co., Bank of Wayne Bldg., Box 989, Goldsboro, N. C. (B-H-Hvy)
- Lowder, Ray D., Inc., Albemarle, N. C. (H)
- Lyles & Lang Constr. Co., Leesboro Rd., Columbia, S. C. (B)
- MacDougald Constr. Co., Northside Dr., N.W., P. O. Box 1655, Atlanta 1, Ga. (H-Hvy-RR)
- Macon Constr. Co., Franklin, N. C. (H)
- Mangum, C. C., Box 5936, State College Sta., Raleigh, N. C. (H-Hvy)
- Manor Constr. Co., Inc., Box 5243, Columbia, S. C. (B)
- Martin, Ben H., Box 166, Easley, S. C. (H)

(Symbols following names indicate type of construction performed by company; B—Building; H—Highway; Hvy—Heavy; RR—Railroad.)

A.G.C. DIRECTORY

CAROLINAS—Continued

- McDevitt & Street Company, Box 1847, 505 Builders Bldg., Charlotte 1, N. C. (B-Hvy)
- McDowall & Wood, 1308 W. Main St., Salem, Va. (H)
- McKoy-Helgerson Co., Box 57, 320 S. Hudson St., Greenville, S. C. (B)
- McMeekin Constr. Co., P. O. Box 352, Cheraw, S. C. (H-Hvy)
- Merchant Constr. Co., 284 Biltmore Ave., Box 2479, Asheville, N. C. (B)
- Midstate Contrs., Inc., 903 21½ St., P. O. Box 2401, Hickory, N. C. (H-Hvy)
- Mitchell, H. F. Constr. Co., P. O. Box 528, Main St., Burlington, N. C. (B)
- Mixon, B. H., Drawer 452, Henderson, N. C. (B)
- Mobley, Clarence, Contr. Co., 640 11th St., Augusta, Ga. (B-Hvy)
- Modern Bldrs., Inc., 226 S. Main St., Rocky Mount, N. C. (B)
- Moore Constr. Co., P. O. Box 5, Myrtle Beach, S. C. (B)
- Moore, G. E., Co., Inc., Box 1069, Greenwood, S. C. (B-H-Hvy)
- Moragne, Davis, Constr. Co., P. O. Box 1496, 303 Gadsden St., Columbia K, S. C. (B-H-Hvy)
- Morgan, E. R., Box 1101, 251½ Main St., Gastonia, N. C. (B)
- Morris Constr. Co., P. O. Box 364, Greenville, S. C. (B)
- Muirhead, Wm., Construction Company, Inc., P. O. Box 2012, E. Trinity Ave., Durham, N. C. (B-H-Hvy)
- Mullis, Carl W., Lumber Co., Box 470, Lancaster, S. C. (B)
- Myers Constr. Co., Inc., P. O. Box 4074, Monroe & Amity Rd., Charlotte, N. C. (H-Hvy)
- Neal, C. P., Constr. Co., P. O. Box 278, Forest City, N. C. (B)
- North State Constr. Co., Inc., 830 Carr St., P. O. Box 1136, Rocky Mount, N. C. (B)
- Owen Constr. Co., Inc., 1006 Northwood St., Greensboro, N. C. (B)
- Palmetto Constr. Co., Inc., Box 431, Columbia, S. C. (H)
- Parham-Darr Constr. Co., P. O. Box 1226, High Point, N. C. (B)
- Patterson, Dean, Constr. Co., 1150 S. Main St., Burlington, N. C. (H-Hvy)
- Peden Constr. Co., Inc., 39 Maberry St., Greenville, S. C. (H-Hvy)
- Pennell & Haigler Constr. Co., Wilkesboro Rd., Lenoir, N. C. (B)
- Phillips Constr. Co., Arch & Catawba Sts., Lancaster, S. C. (B)
- Pickler, M. C., Constr. Co., Inc., Aberdeen, N. C. (B)
- Piedmont Constr. Co., Inc., P. O. Box 1538, 607 Coal St., Winston-Salem 1, N. C. (B-H-Hvy)
- Pinnix, R. H., P. O. Box 97, Commercial Bldg., Gastonia, N. C. (B)
- Player Realty & Constr. Co., P. O. Box 707, Fayetteville, N. C. (B)
- Poe, T. W., & Sons, P. O. Box 245, 406 Snow Bldg., Durham, N. C. (B)
- Potter-Shackelford Constr. Co., Box 1018, Allen Bldg., Greenville, S. C. (B)
- Propst, Ben B., Concord, N. C. (H)
- Propst Constr. Co., Inc., P. O. Box 752, Blume St., Concord, N. C. (H)
- Pullen & Owens, 1108 3d National Bk. Bldg., Nashville 3, Tenn. (H-Hvy)
- Pyramid Constr. Co., 608½ S. 17th St., Box 1655, Wilmington, N. C. (B-H-Hvy)
- Quinn, E. L., Constr. Co., P. O. Box 1333, Gastonia, N. C. (B)
- Ramsey, A. A., & Son, P. O. Box 1249, Shelby, N. C. (B)
- Rea Constr. Co., P. O. Box 2015, Charlotte, N. C. (H-Hvy)
- Reagan, Wm. M., & Sons, Inc., R.F.D. 4, Box 215, Columbia, S. C. (H-Hvy)
- Reed & Abee, Inc., Box 5101, Biltmore Sta., Brook St., Asheville, N. C. (Hvy)
- Reinecke-Tarlton, Inc., 460 Rowan St., Fayetteville, N. C. (B)
- Robinson Bros. Contrs., Inc., 841 Merrimon Ave., Asheville, N. C. (B)
- Rogers Constr. Co., Holman Bldg., 217A Market St., Smithfield, N. C. (B)
- Rogers-DeVaun, Inc., P. O. Box 1585, 17th & Meares St., Wilmington, N. C. (B)
- Rose, D. J., & Son, Drawer 351, 125 Rose St., Rocky Mount, N. C. (B)
- Rouse, R. N., & Co., 1019 N. William St., P. O. Box 702, Goldsboro, N. C. (B)
- Ruscon Constr. Co., 149 E. Bay St., P. O. Box 275, Charleston, S. C. (B-Hvy)
- Sanford Constr. Co., Inc., Sycamore St., Box 427, Sanford, N. C. (H-Hvy)
- Scott, W. H., Inc., P. O. Drawer 418, Franklin, Va. (H)
- Seastrunk, F. J., Elec. Co., Inc., P. O. Box 329, 1731 Harden St., Columbia, S. C. (Hvy)
- Seth Lumber Co., Inc., Box 468, Lincoln, N. C. (B)
- Shackelford, O. L., 104 E. Blount St., P. O. Box 886, Kinston, N. C. (B)
- Shearer, A. C., Co., Box 128, Chapel Hill, N. C. (H)
- Shipp, C. H., Constr. Co., P. O. Box 667, 1104 Watts St., Durham, N. C. (B)
- Shockey, C. G., Constr. Co., 2020 Blanding St., Columbia 59, S. C. (B)
- Showalter, F. L., Inc., Box 623, 1601 Allied Arts Bldg., Lynchburg, Va. (B-Hvy)
- Simon, W. A., Inc., P. O. Box 87, 309 Marsteller St., Wilmington, N. C. (B)
- Skinner, M. L., P. O. Box 364, 1513 National Ave., New Bern, N. C. (B)
- Skinner & Ruddock, Inc., P. O. Box 750, Charleston G, S. C. (B-H-Hvy)
- Sloan Constr. Co., Inc., P. O. Box 747, Peoples Natl. Bk. Bldg., Greenville, S. C. (H)
- Smith, C. T., & Son, Box 89, Lenoir, N. C. (B)
- Smyth, Norman A., Co., 404½ S. Tryon St., Box 473, Charlotte 1, N. C. (B)
- Southeastern Constr. Co., 301 W. 2d St., Box 1517, Charlotte 1, N. C. (B)
- Southern Bldrs., Inc., Box 1016, Fayetteville, N. C. (B-H)
- Southern Constr. Co., 650 State St., P. O. Box 1392, Charlotte, N. C. (B)
- Southern States Constr. Co., 1408 Hampton St., Columbia, S. C. (B)
- Sparling Constr. Co., 1326 Carolina St., P. O. Box 1980, Greensboro, N. C. (B)
- Spong Constr. Co., P. O. Box 5436, 608½ Harden St., Columbia, S. C. (B)
- Spotts & Co., R.F.D. 1, Box 124, Newberry, S. C. (H-Hvy)
- Spruce, Geo. T., 401 Lake Shore Dr., P. O. Box 3238, Fayetteville, N. C. (Hvy)
- Stacy Bros. Co., 145 W. Main St., Box 247, Johnson City, Tenn. (H)
- Stewart, H. R., & Co., 5 Westchester Dr., Asheville, N. C. (H-Hvy)
- Stewart, Harvey H., P. O. Box 1932, 1294 S. Gaham St., Charlotte, N. C. (H-Hvy)
- Stewart, R. K., & Son, 1519 S. Main, Box 1936, High Point, N. C. (B)
- Stiefel, W. Herbert, Richland Ave. at Williamsburg St., Aiken, S. C. (B)
- Stockton, J. C., & Son, 1316 Wilson St., Augusta, Ga. (B)
- Strong & Harmon, 2714 Coolee Dr., Raleigh, N. C. (B)
- Stroup, D. Glenn, 111 Oakdale St., Gastonia, N. C. (B)
- Suber & Co., Inc., N. Main St., P. O. Box 338, Whitmire, S. C. (H-Hvy)
- Tate, C. G., Constr. Co., 108 S. Spring St., Concord, N. C. (H)
- Taylor Constr. Co., 400 Parnell St., West Columbia, S. C. (B)
- Taylor, E. F., Co., Inc., Box 653, Goldsboro, N. C. (B)
- Taylor, John R., Co., P. O. Box 182, 125½ W. Market St., Greensboro, N. C. (B)
- Teer, Nello L., Co., Trust Bldg., Durham, N. C. (H-Hvy)
- Thomas, J. B., 1203 Elizabeth Ave., Charlotte, N. C. (B)
- Thomason, C. Y., Co., Box 232, Greenwood, S. C. (B-H-Hvy)
- Thompson, A. R., Contr., Inc., Charlotte Rd., P. O. Box 248, Rutherfordton, N. C. (H)
- Thompson-Arthur Constr. Co., 300 Benbow Rd., P. O. Box 1197, Greensboro, N. C. (H-Hvy)
- Thompson, F. N., P. O. Box 1474, Charlotte 1, N. C. (B-H-Hvy)
- Thompson, J. M., Co., 304 S. Salisbury St., P. O. Box 2754, Raleigh, N. C. (B)
- Thompson, O. G., & Sons, N. Church St., Burlington, N. C. (B)
- Tompkins-Curlett-Wunderlich, P. O. Box 139, Salisbury, N. C. (B-H-Hvy)
- Towles-Cline Constr. Co., P. O. Box 1617, Market St. Rd., Wilmington, N. C. (H-Hvy)
- Triangle Constr. Co., P. O. Box 372, Greenville, S. C. (B)
- Triplett, F. A., Inc., Box 297, Chester, S. C. (H)
- Tuck, A. M., 508 Hodges Bldg., Greenwood, S. C. (H)
- Wade, Henry F., Barnesville, N. C. (B-H)
- Wagoner Constr. Co., 1311 Blair St., P. O. Box 1127, Salisbury, N. C. (B)
- Wannamaker & Wells, Inc., Box 542, 900 Chestnut, N. E., Orangeburg, S. C. (B-H-Hvy)
- Wayne Engr. & Constr. Co., Inc., P. O. Box 306, Mt. Olive, N. C. (H)
- Weaver, W. H., Constr. Co., Inc., 214 W. Gaston St., Greensboro, N. C. (B)
- West Bldg. Co., Inc., 1006 Reynolds Bldg., Winston-Salem, N. C. (B)

CAROLINAS—Continued

West, P. S., Constr. Co., Inc., 430 S. Center St., Drawer 751, Statesville, N. C. (B-Hvy)
 White, A. P., & Assos., Box 264, Charlotte, N. C. (Hvy)
 Whitton Bros., 301 W. 2d St., P. O. Box 1517, Charlotte 1, N. C. (B)
 Wilburn & Son, 21 Pine Tree Circle, Asheville, N. C. (B)
 Willard, A. Y., Box 155, St. Andrews Br., Charleston, S. C. (B-Hvy)
 Wilson Constr. Co., P. O. Box 345, Marion, S. C. (B-H-Hvy)
 Wilson Constr. Co., Inc., Box 603, 120 N. Church St., Salisbury, N. C. (H-Hvy)
 Wilson-Covington Constr. Co., P. O. Box 5235, Winston-Salem, N. C. (B)
 Wilson, G. L., Bldg. Co., 149 E. Water St., Box 1147, Statesville, N. C. (B)
 Wilson-Ledford Constr. Co., Inc., P. O. Box 752, Wilkinson Blvd., Gastonia, N. C. (B)
 Winkelman, D. W., Carolina Co., Box 2566, Greensboro, N. C. (H-Hvy)
 Withers, P. T., Constr. Co., Box 197, 257½ W. Main St., Gastonia, N. C. (B-Hvy)
 Wrenn-Wilson Constr. Co., P. O. Box 393, 209 Trust Bldg., Durham, N. C. (B-Hvy)
 Wright Constr. Co., 600 Lawyers Bldg., Raleigh, N. C. (B)
 York Bldg. Co., Cameron Village, Raleigh, N. C. (B)
 Young Constr. Co., 966 W. Main St., Rock Hill, S. C. & Box 2483, Charlotte, N. C. (B-H-Hvy)
 Young, J. R., Constr. Co., Inc., P. O. Box 747, 330 Worth St., Fayetteville, N. C. (B-Hvy)
 Younis, E. E., Inc., P. O. Box 1253, High Point, N. C. (B)
 Zeigler-Cline Constr. Co., 1226 Ft. Bragg Rd., P. O. Box 3376, Fayetteville, N. C. (H)

33. NORTH DAKOTA

(a) ASSOCIATED GENERAL CONTRACTORS OF NORTH DAKOTA

President—Joseph M. Powers, T. F. Powers Constr. Co., 217 4th Ave., No., Fargo, N. Dak.
 Manager—R. J. Hendershott, 910 Builders Exch. Bldg., Minneapolis 2, Minn.
 Telephone: Atlantic 0804
 Field Representative—W. A. Bastedo, 353 9th Ave., So., Fargo, N. Dak.
 Telephone: 2-3800
 Beebe, John C., 103 Goebel Bldg., Grand Forks, N. Dak. (B)
 Bradbury, P. A., Constr. Co., Wylie Park Rd., Box 636, Aberdeen, S. Dak. (B-H)
 Brezina, A. J., & Sons, Osanbrock, N. Dak. (B-H-Hvy)
 Flaten, Ole, Sons of Norway Bldg., Minot, N. Dak. (B)
 Jardine Bridge Co., Inc., 1910 1st Ave., No., Fargo, N. Dak. (H-Hvy)
 Johnson-Gillanders Co., 424 N. 3d St., Grand Forks, N. Dak. (B)

Jordan Constr. Co., Hensel, N. Dak. (B-H)
 Knudsen, Carl M., & Co., 312 8th St., N. W., Minot, N. Dak. (B)
 Krieg, J. E., & Sons, 2014 Front St., Fargo, N. Dak. (B)
 Larson, John W., 200½ 3d St., Bismarck, N. Dak. (B)
 Mackley & Ralston, 401 1st Ave. Bldg., Minot, N. Dak. (B)
 Mattson, Isak, & Son, 120 1st Ave., S. E., Minot, N. Dak. (B)
 Meinecke-Johnson Co., 5 N. 14th St., P. O. Box 1446, Fargo, N. Dak. (B)
 Meisner-Anderson Co., 713 Avenue A, Bismarck, N. Dak. (B)
 Miller Bros. Constr., 1 Fauchald Bldg., Minot, N. Dak. (B)
 Moline, E. A., 118½ 1st Ave., So., Jamestown, N. Dak. (B)
 Northern Constr. Co., 509 S. 3d St., Grand Forks, N. Dak. (H-Hvy)
 Orheim, I. E., 9 4th St., N. E., Minot, N. Dak. (B)
 Powers, T. F., Constr. Co., 217 4th Ave., No., Fargo, N. Dak. (B)
 Roel Constr. Co., 20 N. 14½ St., Fargo, N. Dak. (B)
 Rue Constr. Co., 217 3d St., Bismarck, N. Dak. (H-Hvy)
 Schultz & Lindsay Constr. Co., 621 1st Ave., No., Fargo, N. Dak. (H)
 Shaw, J. A., Constr. Co., Fargo, N. Dak. (H-Hvy)
 Shirley Constr. Co., Minot, N. Dak. (B)
 Simek, Frank, Bottineau, N. Dak. (B)
 Smith, Inc., 1620 1st Ave., No., Fargo, N. Dak. (B)
 Swingen Constr. Co., 901 N. 6th St., Grand Forks, N. Dak. (H)
 Tri-State Excavating Co., 630 1st Ave., No., Fargo, N. Dak. (H-Hvy)
 Valley Engr. & Constr. Co., 1102 S. Washington, Grand Forks, N. Dak. (H-Hvy)

34. OHIO

(a) AKRON CHAPTER

President—Arnold Weinstein, Weinstein Constr. Co., 573 E. Tallmadge Ave., Akron, Ohio
 Secretary—Wayne L. Myers, Builders Exch. Bldg., Akron 10, Ohio
 Telephone: Hemlock 3636
 Carmichael Constr. Co., The, 148 E. Miller Ave., Akron 1, Ohio (B-Hvy)
 Carter, C. E., 16 W. Burns Ave., Akron 10, Ohio (B)
 Cleaver, David, Co., 390 Morgan Ave., Akron 11, Ohio (B)
 Clemmer Constr. Co., Inc., 134 E. Thornton St., Akron 11, Ohio (B)
 D'Alessio Constr. Co., 595 E. Tallmadge Ave., Akron 10, Ohio (B-H-Hvy)
 DeLuca Constr. Co., 1055 Grant St., Akron, Ohio (H-Hvy)
 Frank, P. L., Constr. Co., The, 421 W. Highland Ave., Ravenna, Ohio (B)
 Gilpin Constr. Co., The, 28 Stone Block, Warren, Ohio (B-Hvy)
 Helbig, A. S., Co., The, 39 N. Valley St., Akron, Ohio (Hvy)

Jackson, Geo. R., Co., The, 266-268 Park St., Akron, Ohio (B)
 Jacobson, John, Co., The, 1046 N. Main St., Akron 10, Ohio (B-Hvy)
 Jesse, Walter A., 450 Hickory St., Akron, Ohio (B)
 Lindstrom & Swanson, Inc., 1474 Copley Rd., Akron, Ohio (B)
 Miletto Constr. Co., 1163 Berwin St., Akron 10, Ohio (B)
 Perry, B. F., 106 N. Main St., Akron, Ohio (B-Hvy)
 Rottmayer Constr. Co., 319 Power St., Akron 11, Ohio (B)
 Summit Constr. & Fixture Co., 561 Washington St., Akron, Ohio (B)
 Weinstein Constr. Co., 573 E. Tallmadge Ave., Akron, Ohio (B)

(b) CINCINNATI CHAPTER

President—Louis Richter, Richter Transfer Co., 1249 W. 7th St., Cincinnati 3, Ohio
 Manager—J. A. Higgins, 903 Times Star Tower, Cincinnati 2, Ohio
 Telephone: Parkway 3560
 Ajax Constr. Co., The, 6319 Wiebe Rd., Cincinnati 13, Ohio (B)
 Armo Drainage & Metal Prods., Inc., Central Div., Box 170, Middletown, Ohio (H-Hvy-RR)
 Eoyajohn, Haig M., & Assos., Inc., 990 W. 3d Ave., Columbus 8, Ohio (B)
 Brewer Co., 7455 Dawson Rd., Madeira, Ohio (H-Hvy)
 Brose Constr. Co., 5431 Hetzel Ave., Cincinnati 27, Ohio (B)
 Byrnes-Conway Co., 50 Oak St., St. Bernard, Cincinnati 17, Ohio (H-Hvy)
 Crawley, David, Box 91, College Hill, Cincinnati 24, Ohio (H-Hvy)
 Crumley, Jones & Crumley Co., The, 7234 Blue Ash Ave., Deer Park 13, Ohio (H-Hvy)
 Danis, B. G., Co., 1518 E. 1st St., Dayton 3, Ohio (B)
 DeSalvo Constr. Co., 342 Elliott Ave., Cincinnati 15, Ohio (H-Hvy)
 Ferro Concrete Constr. Co., 203 W. 3d St., Cincinnati 2, Ohio (B-Hvy)
 Fisher-DeVore Constr. Co., 3629 Idlewild Ave., Cincinnati 7, Ohio (B)
 Foley Constr. Co., 5050 Orchard St., Cincinnati 12, Ohio (H-Hvy-RR)
 Harper, W. L., Co., 2910 E. Highland Ave., Cincinnati 12, Ohio (H-Hvy)
 Jurgensen, John R., Round Bottom & N. & W. R. R., Newtown, Ohio (H-Hvy)
 Korte Constr. Co., The, 324 Railroad Ave., St. Bernard, Cincinnati 17, Ohio (B)
 Maescher, Chas. V., & Co., 2106 Florence Ave., Cincinnati 6, Ohio (B-Hvy)
 Marcus, M., Bldg. Co., 2109 Reading Rd., Cincinnati 2, Ohio (B)
 McCarthy, Ed. A., & Son, Box 55, Sta. E., Cincinnati 19, Ohio (B-RR)
 Messer, Frank, & Sons, Inc., 4612 Paddock Rd., Cincinnati 29, Ohio (B-Hvy)
 Meyer-Hecht Co., 2824 Stanton Ave., Cincinnati 6, Ohio (B)
 Miller, H. W., Constr. Co., Inc., 1511 Neave St., Covington, Ky. (B-Hvy)

(Symbols following names indicate type of construction performed by company; B—Building; H—Highway; Hvy—Heavy; RR—Railroad.)

OHIO—Continued

Murdeck Constr. Co., The, 1686 West St., Norwood 12, Ohio (H-Hvy)
 O'Connell & Sweeney, Inc., 1640 Lionel, Box 56, Sta. F. Cincinnati 4, Ohio (H-Hvy)
 Penker Constr. Co., The, 1030 Summer St., Cincinnati 4, Ohio (B-Hvy)
 Peters, Paul C., Co., Rm. 27, Kenton Bldg., 2318 Monroe St., Toledo 2, Ohio (B)
 Richardson Constr. Co., Inc., 5236 Kennedy Ave., Cincinnati 13, Ohio (H)
 Richter Transfer Co., 1249 W. 7th St., Cincinnati 3, Ohio (H-Hvy)
 Ruebel, S. A. & Co., 4338 Georgia Ct., Cincinnati 23, Ohio (H-Hvy-RR)
 Scully Bros., 405 Atlas Bk. Bldg., Cincinnati 2, Ohio (H)
 Shook, Chas. H., 582 W. 2d St., Dayton 1, Ohio (B)
 Skilken, Jos., & Co., 44 E. Broad St., Columbus 15, Ohio (B-Hvy)
 Swan Constr. Inc., P. O. Box 1727, Cincinnati 1, Ohio (B-Hvy)
 Vest & Bartell Constr. Co., 4438 Appleton St., Cincinnati 9, Ohio (H-Hvy)
 Wagner, Inc., 3855 Alta Ave., Silverton, Cincinnati 36, Ohio (B-H-Hvy)
 Warm, J. & E., Co., The, 2335 Florence Ave., Cincinnati 6, Ohio (B-Hvy)
 Zull, C. Louis, 831 Temple Bar Bldg., Cincinnati 2, Ohio (B)

(c) CLEVELAND CHAPTER

President—C. Earle Pratt, The Cleveland Constr. Co., 3866 Carnegie Ave., Cleveland 15, Ohio
Executive Secretary—Chas. W. Jauch, 1737 Euclid Ave., Cleveland 15, Ohio
Telephone: Main 4000
 Alger-Rau, Inc., 17024 Miles Ave., Cleveland 28, Ohio (B)
 Bolton-Pratt Co., The, 1276 W. 3d St., Cleveland 13, Ohio (B)
 Brown Constr. Co., The, 2520 Payne Ave., Cleveland 14, Ohio (B)
 Burton, Chas. A., Inc., 12600 Triskett Rd., Cleveland 11, Ohio (B)
 Carbone, R. P., Constr. Co., 1504 Scovill Ave., Cleveland 15, Ohio (B)
 Christian, J. E., Co., The, 5703 Curtiss Ave., Cleveland 3, Ohio (B)
 Cleveland Constr. Co., The, 3866 Carnegie Ave., Cleveland 15, Ohio (B)
 Duffy Constr. Co., 540 Terminal Tower, Cleveland 13, Ohio (B)
 Dunbar Co., The, 8201 Cedar Ave., Cleveland 3, Ohio (B)
 Dunlop & Johnston, Inc., 2138 Lee Rd., Cleveland Heights 18, Ohio (B)
 Emerson, Sam W., Co., The, 1836 Euclid Ave., Cleveland 15, Ohio (B)
 Esch Constr. Co., 812 Caxton Bldg., Cleveland 15, Ohio (B)
 Ferguson, H. K., Co., The, 1783 E. 11th St., Cleveland 14, Ohio (B)
 Freeman & Jones, Inc., 6007 Euclid Ave., Cleveland 3, Ohio (Hvy-RR)
 Gaspard Constr. Co., The, 2193 Concord Dr., Cleveland 7, Ohio (B)
 Gilmore, Carmichael & Olson Co., The, 1873 E. 55th St., Cleveland 3, Ohio (B)
 Henderson, David, & Son, 7808 Kinsman Rd., Cleveland 4, Ohio (B)

Higley, Albert M., Co., The, 2036 E. 22d St., Cleveland 15, Ohio (B)
 Humel Constr., Inc., 17706 Miles Ave., Cleveland 22, Ohio (B)
 Hunkin-Conkey Constr. Co., The, 1740 E. 12th St., Cleveland 14, Ohio (B-Hvy)
 Hunting, J. L., Co., The, Chester-9th Bldg., Cleveland 14, Ohio (B)
 Klefman, H. E., Co., The, 3436 Lorain Ave., Cleveland 13, Ohio (B)
 Krill, Leonard H., Co., The, 2169 E. 33d St., Cleveland 15, Ohio (B)
 Masters & Mullen Constr. Co., The, 437 Chester-12th Bldg., Cleveland 14, Ohio (B)
 Minton Constr. Co., 3751 Prospect Ave., Cleveland 16, Ohio (B-Hvy)
 Mitzel Co., The, 1836 Euclid Ave., Cleveland 15, Ohio (B)
 National Concrete Fireproofing Co., The, 555 Terminal Tower Bldg., Cleveland 13, Ohio (B)
 Paugh & Brown, Inc., 6007 Euclid Ave., Cleveland 3, Ohio (B)
 Peck & Udell Constr. Co., The, 4500 Euclid Ave., Cleveland 3, Ohio (B)
 Rankin, D. W., Inc., 1836 Euclid Ave., Cleveland 15, Ohio (B)
 Regan, C. T., Constr. Co., The, 1900 Euclid Ave., Cleveland 15, Ohio (B)
 Roerdig Constr., Inc., 1737 Euclid Ave., Cleveland 15, Ohio (B)
 Rutherford, Geo. A., Co., The, 2725 Prospect Ave., Cleveland 15, Ohio (B)
 Schirmer-Peterson Co., The, 6830 Beaver Ave., Cleveland 4, Ohio (B)
 Schirmer-Schneider Co., The, 2719 Detroit Ave., Cleveland 13, Ohio (B)
 Schloss, Wm. L., Asphalt Paving Co., 3494 Lee Rd., Cleveland 20, Ohio (H)
 Schmidt, Leo W., Co., 10000 Granger Rd., Cleveland 5, Ohio (B)
 Slatmyer, Henry G., & Son Constr. Co., The, 203 Lakeside Ave., N. W., Cleveland 13, Ohio (B)
 Smith, Howard L., 664 Green Rd., Cleveland 21, Ohio (B)
 Swisher, Mark, Inc., 1600 E. 25th St., Cleveland 14, Ohio (B)
 Ursprung, R. S., Co., Hanna Annex, Cleveland 15, Ohio (B)
 Vokes, H. L., Co., Inc., 1000 Wayside Rd., Cleveland 10, Ohio (B)

(d) OHIO HIGHWAY CHAPTER

President—V. N. Holderman, V. N. Holderman & Sons, Inc., 890 E. Oakland Park Ave., Columbus 11, Ohio
Executive Secretary—Chas. E. McKee, 40 W. Gay St., Room 301, Columbus 15, Ohio
Telephone: Fletcher 1579
 Baker & Hickey Co., The, 2170 Eakin Rd., Columbus 4, Ohio (Hvy-RR)
 Baltes, A. J., Inc., 181 Benedict Ave., Norwalk, Ohio (H)
 Brewer & Brewer Sons, Inc., 81 W. Water St., Chillicothe, Ohio (H)
 Burns, A. W., Constr. Co., The, 424 Woodland Ave., Columbus 3, Ohio (H)
 Calaway, C. P., 1220 Madison Ave., Toledo 2, Ohio (H)

Christopher Constr. Co., 40 W. Gay St., Columbus 15, Ohio (Hvy)
 Complete General Constr. Co., 1221 E. 5th Ave., Columbus 3, Ohio (H-Hvy)
 Dienst, Robt. J., 297 S. High St., Columbus 15, Ohio (H)
 Elliott, W. J., McConnelville, Ohio (H)
 Frowine Constr. Corp., 821 Prospect St., Portsmouth, Ohio (H-Hvy)
 Goss, Jos. H., 304 Parker Dr., Newark, Ohio (H)
 Halpin, L. H., 2301 Pemberton Dr., Toledo 6, Ohio (H-Hvy)
 Herring, Geo. B., & Son, 30 Junction St., Mansfield, Ohio (H)
 Holderman, V. N., & Sons, Inc., 890 E. Oakland Park Ave., Columbus 11, Ohio (H-Hvy-RR)
 Holt, H. W., & Son, 998 W. Mound St., Columbus 8, Ohio (H)
 Howard, G. F., Constr. Co., Inc., Box 277, Canfield, Ohio (B-H-Hvy)
 Johnson, S. E., Co., The, Box 29, Maumee, Ohio (H)
 Johnson, W. L., Constr. Co., 209 E. High St., Hicksville, Ohio (H-Hvy)
 Koski Constr. Co., The, 4544 Main Ave., Ashtabula, Ohio (H)
 Langenderfer, Arthur S., & Co., P. O. Box 815, Toledo 1, Ohio (H)
 Launder & Son, Inc., Sta. E. Box 6, Toledo, Ohio (H)
 Leach, G. H., Co., Inc., The, Empire Bldg., Bellefontaine, Ohio (Hvy)
 Mansfield Asphalt Paving Co., R. 153 Orange St., Mansfield, Ohio (H)
 Maxon Construction Company, Inc., 131 N. Ludlow St., Dayton 2, Ohio (Hvy)
 Peirce Constr. Co., 3005 Bellevue Rd., Toledo 6, Ohio (H)
 Purdy Constr. Co., The, 200 E. Longview Ave., Box 188, Mansfield, Ohio (H-Hvy-RR)
 Red Eagle Corp., The, 176 Walhalla Rd., Columbus, Ohio (B-H)
 Replogle, C. F., P. O. Box 308, Circleville, Ohio (B-H)
 Ringwald, W. H., & Sons Co., Chillicothe, Ohio (H-Hvy)
 Southern Quarries & Contr. Div. of the N. Y. Coal Sales Co., 150 E. Broad St., Columbus 15, Ohio (H)
 Tri-State Asphalt Corp., S. Broadway, Martins Ferry, Ohio (H)
 Visintine & Co., 1315 Edgehill Rd., Columbus 8, Ohio (H)
 Vogt, Elmer, Inc., 300 Lincoln Way, W., Massillon, Ohio (H-Hvy-RR)
 Zeller, Max J., Inc., 297 S. High St., Columbus 15, Ohio (H)

(e) ASSOCIATED BUILDING CONTRACTORS OF TOLEDO, INC.

President—Wm. H. Comte, Comte Constr. Co., 912 Summit St., Toledo 4, Ohio
 Bentley, A., & Sons Co., The, 201 Belmont Ave., Toledo 2, Ohio (B-Hvy)
 Comte Constr. Co., 912 Summit St., Toledo 4, Ohio (B)
 Lathrop, Geo. W., & Sons, Inc., Box 772, Toledo 1, Ohio (B)

OHIO—Continued

Naumann, John, & Sons, Inc., 364 Parker Ave., Toledo 5, Ohio (B)
 Spieker, Henry J., Co., The, 1418 Elm St., Toledo 1, Ohio (B)
 Watts Constr. Co., The, 1235 Miami St., Toledo, Ohio (B-Hvy)

Local Members

Barr, C. M., Company, 1152 W. Goodale Blvd., Columbus 8, Ohio (B)
 Bauer, Martin L., Construction Company, 1909 Manchester Ave., Middletown 22, Ohio (B)
 Benzing, A., & Sons, 709 S. 9th St., Hamilton, Ohio (B)
 Elford, E., & Son, Inc., 555 S. Front St., Columbus 15, Ohio (B-Hvy-RR)
 Steine-Wolfe, Inc., 128 N. Jefferson St., Fremont, Ohio (B)

35. OKLAHOMA

(a) OKLAHOMA BUILDERS CHAPTER

President—H. B. Bass, D. C. Bass & Sons Constr. Co., 314-16 Bass Bldg., P. O. Box 246, Enid, Okla.
 Executive Secretary—Mrs. Ruth Ann Leslie, 709 Gravens Bldg., Oklahoma City 2, Okla.
 Telephone: 3-8408

Barbour & Short, 323 E. Mosier, Norman, Okla. (B)
 Basanda Constr. Co., 2925 N. W. 39th Ter., Oklahoma City, Okla. (Hvy)
 Bass, D. C., & Sons Constr. Co., 314-16 Bass Bldg., P. O. Box 246, Enid, Okla. (B)
 Bellows, W. S., Constr. Corp., P. O. Box 2132, 716 N. Everton St., Houston 1, Texas (B-Hvy)
 Bollinger, J. J., Constr. Co., Box 1333, Oklahoma City 1, Okla. (B)
 Brooks, Larry T., P. O. Box 2113, Tulsa, Okla. (B)
 Builders Constr. Co., 409 Kerr-McGee Bldg., Oklahoma City 2, Okla. (B)
 Burns-Brandes Constr. Co., 1924 E. 7th Pl., Tulsa, Okla. (B)
 Barton-Miller Constr. Co., Inc., P. O. Box 57, Ardmore, Okla. (B)
 Bush, E. B., Constr. Co., P. O. Box 5126, Farley Sta., Oklahoma City 7, Okla. (B)
 Chapman Constr. Co., P. O. Box 170, Lawton, Okla. (B)
 Corely, J. S., Constr. Co., 27th & N. Santa Fe, Oklahoma City 5, Okla. (B)
 Cowen Constr. Co., 214 N. Broadway, Shawnee, Okla. (B)
 Culwell, Haskell, Constr. Co., 40 N. E. 28th, Oklahoma City, Okla. (B)
 Cummins, H. E., & Sons, 1702 Cypress (East), Enid, Okla. (B)
 Dennehy Constr. Co., 408 Braniff Bldg., Oklahoma City 2, Okla. (B)
 DeWitt Co., The, P. O. Box 7087, Tulsa, Okla. (B)

Ditmars-Dickmann-Pickens Constr. Co., 3712 W. Okmulgee, Muskogee, Okla. (B)
 Dunning, Chas. M., Constr. Co., P. O. Box 1183, Oklahoma City 1, Okla. (B)
 Eldridge Constr. Co., 914 N. Jefferson, Enid, Okla. (B)
 Ellis-Nicholson & Cramer, Inc., 610 High-tower Bldg., Oklahoma City 2, Okla. (B)
 Frederickson-Parks, Inc., 25 N. E. 28th, Oklahoma City, Okla. (B)
 Gehring, C. I., 111 S. Chickasaw, Bartlesville, Okla. (B)
 Grimshaw, W. R., Co., 208-212 KOME Bldg., 8th & Main Sts., Tulsa 3, Okla. (B-Hvy)
 Hannaford Constr. Co., P. O. Box 1717, Tulsa, Okla. (B)
 Harmon Constr. Co., P. O. Box 1414, 100 S. Indiana, Oklahoma City 1, Okla. (B)
 Hoke Constr. Co., P. O. Box 431, Stillwater, Okla. (B)
 Horster Constr. Co., Natl. Bk. of Tulsa Bldg., Tulsa 3, Okla. (B)
 Hughes, Chas. T., Constr. Co., 1225 Linwood, Oklahoma City, Okla. (B)
 Industrial Constr. Co., 1627 W. Main, Oklahoma City 4, Okla. (B)
 J & J Constr. Co., 1801 Petroleum Bldg., Oklahoma City 2, Okla. (Hvy)
 Lippert Bros., 27th & N. Santa Fe, P. O. Box 3085, Oklahoma City 5, Okla. (B-Hvy)
 Lohmann, H. R., Co., Philtower Bldg., Tulsa 3, Okla. (B)
 Manhattan Construction Co., Manhattan Bldg., Muskogee, Okla. (B-Hvy)
 Martin, John B., Co., Commerce Exch. Bldg., Oklahoma City 2, Okla. (B)
 Mattern Constr. Co., 3130 Woodward Blvd., Tulsa, Okla. (B)
 Mattison, R. E., & Co., Box 8458, Britton Sta., Oklahoma City, Okla. (B-H)
 McCrae & Noftger, 5236 Classen, Oklahoma City, Okla. (B)
 Mefford Constr. Co., P. O. Box 668, Enid, Okla. (B)
 Nashert, Walter, Co., 16 N. E. 27th, Oklahoma City 5, Okla. (B)
 Price, W. E., Constr. Co., 1627 W. Main St., Oklahoma City 4, Okla. (B)
 Putney, John H., Constr. Co., 133 W. 2d St., Oklahoma City 3, Okla. (B)
 Reardon, J. J., Constr. Co., P. O. Box 285, Enid, Okla. (B)
 Secor Bldg. Co., Inc., 201 Plaza Ct., Oklahoma City 3, Okla. (B)
 Shelton, W. C., Co., The, 515 S. 4th St., Lawton, Okla. (B)
 Suttle, Chas. M., 12 N. W. 8th St., Oklahoma City 3, Okla. (B)
 Tankersley Constr. Co., 1912 1st Natl. Bldg., Oklahoma City 2, Okla. (B)
 Thurman, John M., P. O. Box 1076, Borger, Texas (B)
 Tulsa Rig. Reel & Mfg. Co., 1101 Philtower Bldg., P. O. Box 490, Tulsa 1, Okla. (B)
 Walco Engr. & Constr. Co., 2408 E. 4th Pl., Tulsa 4, Okla. (B)
 Waller-Wells Constr. Co., P. O. Box 4067, Walker Sta., Tulsa 9, Okla. (B)
 Whitehurst Constr. Co., 113 Glenside Ave., Ponca City, Okla. (B)

(b) ASSOCIATION OF OKLAHOMA GENERAL CONTRACTORS

President—John C. McConnell, McConnell Constr. Co., Rt. 3, Box 619, 4820 N. W. 16th St., Oklahoma City 7, Okla.

Manager—Glenn McDonald, 715 Wells-Roberts Hotel, Oklahoma City, Okla.

Telephone: 2-4265

Amis Constr. Co., 1647 Exchange Ave., Box 1871, Oklahoma City, Okla. (H-Hvy-RR)
 Anchor Constr. Co., 806-808 Manhattan Bldg., Muskogee, Okla. (H-Hvy)
 Anderson Constr. Co., Box 91, McAlester, Okla. (H-RR)
 Banta Constr. Co., 1646 W. Main, Oklahoma City 4, Okla. (H)
 Barber, E. E., Constr. Co., 1521 George Ave., Box 254, Fort Smith, Ark. (H-RR)
 Baughman, Roy, 4001 N. W. 9th, Oklahoma City, Okla. (H)
 Biles, J. B., Constr. Co., Arnot Bldg., P. O. Box 22, McAlester, Okla. (H)
 Blackburn, W. H., Constr. Co., 1916 N. Broadway, Oklahoma City, Okla. (H-RR)
 Brewer & McMichael, Inc., 314 W. 7th, Box 308, Holdenville, Okla. (H)
 Briscoe, J., Box 188, 414 E. 11th Ave., Stillwater, Okla. (H)
 Broce Constr. Co., P. O. Box 521, Woodward, Okla. (H)
 Bullock, J. D., Woodward, Okla. (H)
 Cohenour Constr. Co., Gilbert Bldg., Box 804, Ardmore, Okla. (H)
 Dahlgren & Brooks, 745 Commerce Exch. Bldg., Oklahoma City, Okla. (H)
 Durrett, Jack, Box 600, Keota, Okla. (H-RR)
 Elliott Bros., Inc., 425 Locust St., Box 425, Perry, Okla. (H)
 Ertz, John, Constr. Co., 2112 N. W. 27th St., Oklahoma City, Okla. (H)
 Evans, S. E., Constr. Co., Box 903, Fort Smith, Ark. (H-Hvy-RR)
 Fisher, J. M., 303 E. Castro, Norman, Okla. (H)
 Fisher, L. S., Woodward, Okla. (B-H-Hvy)
 Frazier Constr. Co., 805 Tradesmen's Natl. Bldg., Oklahoma City, Okla. (H-Hvy)
 Frost Constr. Co., Hydro, Okla. (H)
 Fullerton & Hussey, 921 W. Main, Oklahoma City, Okla. (H-Hvy)
 Fulton, W. D., Constr. Co., 2304 N. W. 28th, Oklahoma City, Okla. (H)
 G-I Constr. Co., Box 116, Meeker, Okla. (H)
 Gaines Bros., 530 D. St., N. E., Box 1006, Miami, Okla. (B-H-Hvy)
 General Constr. Corp., Capitol Post Office, Box 3097, Oklahoma City, Okla. (H-Hvy)
 Cragg, O. R., Box 261, Henryetta, Okla. (H)
 Haggard Constr. Co., 812 S. Broadway, Oklahoma City, Okla. (H)
 Hammock, R. W., Rt. 1, Van Buren, Ark. (B-H-Hvy-RR)
 Henryetta Constr. Co., Henryetta, Okla. (H-Hvy)
 Hodges Constr. Co., 1633 N. Eastern, Oklahoma City, Okla. (H)
 Honegger Bros. Constr. Co., Kingfisher, Okla. (H)

(Symbols following names indicate type of construction performed by company; B—Building; H—Highway; Hvy—Heavy; RR—Railroad.)

OKLAHOMA—Continued

Hunter Constr. Co., Box 538, Ada, Okla. (H-Hvy-RR)
 James, Guy H., Constr., 1816 1st Natl. Bldg., Oklahoma City 2, Okla. (H)
 Keck, G. E., Fairview, Okla. (B-Hvy)
 Kiewit, Peter, Sons' Co., 2344 Somerset Pl., Oklahoma City, Okla. (H-Hvy)
 Kimsey, Bill, Constr., Co., 101 N. Mill St., Pryor, Okla. (H)
 Landt, H. R., 2136 N. W. Park Pl., Oklahoma City, Okla. (H)
 Layman & Co., P. O. Box 2395, Tulsa, Okla. (H)
 Lemon, Haskell, P. O. Box 7115, Oklahoma City, Okla. (H)
 Logan, W. E., & Sons, 906 Barnes Bldg., P. O. Box 207, Muskogee, Okla. (H-Hvy)
 McClintone Bros. Constr. Co., 310 Ozark Theatre Bldg., Box 749, Fayetteville, Ark. (H)
 McConnell Constr. Co., 506 Surety Bldg., Muskogee, Okla. (H)
 McMichael Concrete Co., 1113 Hunt Bldg., Tulsa 3, Okla. (H-Hvy)
 Moore Bridge Co., Inc., Box 907, Ada, Okla. (H-Hvy)
 Moorman, J. W., & Son, 2629 W. Broadway, Muskogee, Okla. (H)
 Mosher & Kiker, El Reno, Okla. (H)
 Mullinix Constr. Co., 1433 N. W. 5th St., Oklahoma City 6, Okla. (H)
 Oklahoma Paving Co., 4131 N. Portland, Oklahoma City, Okla. (H)
 P & H Constr. Co., 3715 N. W. 23d St., Oklahoma City, Okla. (H)
 Park-Ward Co., 711 N. W. 38th St., Oklahoma City, Okla. (H-Hvy)
 Plymate, Clay, Co., Inc., Box 7027, 39th St. Sta., Oklahoma City, Okla. (H)
 Poston Sand & Gravel, 6 Ave., E., Lawton, Okla. (H-RR)
 Raines, J. A., P. O. Box 936, Muskogee, Okla. (H-Hvy)
 Ryan-Richards Co., 1401 N. W. 5, Oklahoma City, Okla. (H)
 Sawalisch Constr. Co., 200 W. Elm, P. O. Box 782, El Reno, Okla. (H)
 Smith Bros., Noble, Okla. (H)
 Smith, Noland, Constr. Co., Box 761, El Reno, Okla. (H)
 Sooner Constr., Box 23, Muskogee, Okla. (B-H)
 Stamey Constr. Co., 1120 Hales Bldg., Oklahoma City, Okla. (H-Hvy-RR)
 Standard Paving Co., 2119 E. 11th St., Tulsa, Okla. (H)
 Stebbins Constr. Co., Box 1498, Tulsa, Okla. (H-Hvy)
 Steelman Constr. Co., 2800 N. E. 4th St., P. O. Box 1283, Oklahoma City, Okla. (H-Hvy)
 Steinberg Constr. Co., 1514 S. 79th East Ave., Tulsa, Okla. (H)
 Stigler Constr. Co., P. O. Box 237, Stigler, Okla. (H-Hvy)
 Thompson, Jim S., 2209 N. Shartel, Oklahoma City, Okla. (H-Hvy)
 Tulsa Rig, Reel & Mfg. Co., 1101 Philtower Bldg., Box 490, Tulsa 1, Okla. (B-H-Hvy)

Tway, R. R., Co., 710 N. E. 19, Oklahoma City, Okla. (B-H-Hvy)
 Weaver, M. O., Inc., P. O. Box 1406, Muskogee, Okla. (H)
 Youngman, H. D., P. O. Box 166, Baxter Springs, Kans. (H-Hvy-RR)

36. OREGON

(a) PORTLAND CHAPTER

President—Henry Kuckenberg.
Kuckenberg Constr. Co., 11104 N. E. Holman St., P. O. Box 7407, Parkrose Sta., Portland, Oreg.
Manager—A. H. Harding, Suite 112, Multnomah Hotel, Portland 4, Oreg.
Telephone: Atwater 7339

Adler Constr. Co., P. O. Box 595, Loveland, Colo. (H-Hvy-RR)
 Arenz, Theo. & J. M., 1601 N. E. Columbia Blvd., Portland 11, Oreg. (H-Hvy-RR)
 Atkinson, Guy F., Co., 806 Cascade Bldg., Portland 4, Oreg. (B-H-Hvy-RR)
 Babler Bros., 4617 S. E. Milwaukie Ave., Portland 2, Oreg. (H-Hvy)
 Beebe, Del R., Constr. Co., W. 11th Ave., P. O. Box 138, Eugene, Oreg. (H-Hvy)
 Benold, A. Wilson, 32-33 Coble Bldg., Bend, Oreg. (B-Hvy)
 Birkemeier & Saremal, 301 Lewis Bldg., Portland 4, Oreg. (B-H-Hvy)
 Brittan, J. P., & Co., 5603 S. W. Hood St., Portland 1, Oreg. (H-Hvy)
 Buckler, Geo. H., Co., 4235 S. E. 17th Ave., Portland 2, Oreg. (B-H-Hvy-RR)
 Campbell Constr. & Equip. Co., 2316 N. W. 22 Ave., Portland 10, Oreg. (H-Hvy)
 Cascade Constr. Co., Foot of S. W. Abernathy, Portland 1, Oreg. (H-Hvy)
 Central Heating Co., The, 865 Olive St., Eugene, Oreg. (H-Hvy)
 Coast Constr. & Excavating Co., Box 458, Junction City, Oreg. (H-Hvy)
 Compton, J. C., Co., Box 86, McMinnville, Oreg. (H-Hvy)
 Conley, J. N. & M. J., 4332 N. E. Royal Ct., Portland 13, Oreg. (Hvy)
 Coos Bay Dredg. Co., Inc., P. O. Box 217, Coos Bay, Oreg. (Hvy)
 D-H Paving Co., Rt. 1, Box 148-A, 6800 Evergreen Hwy., Vancouver, Wash. (H)
 Dennis, G. D., & Sons, 7355 S. E. Johnson Creek Blvd., Portland 6, Oreg. (H-Hvy)
 Earley, Roy T., Co., 321 Middle Waterway, P. O. Box 1591, Tacoma, Wash. (B-Hvy)
 Edlfsen-Weygandt Co., P. O. Box 5626, 9233 N. Calvert Ave., Portland 17, Oreg. (H-Hvy)
 Eiring & Prothero, P. O. Box 1117, Hermiston, Oreg. (B-Hvy)
 Empire Constr. Co., 4506 S. E. 39th, Portland 2, Oreg. (H-Hvy)
 Erland & Blicke, 8265 N. Borthwick, P. O. Box 1945, Portland 11, Oreg. (Hvy)
 Gates, E. L., Inc., 444 Center St., Salem, Oreg. (H-Hvy-RR)
 General Construction Company, P. O. Box 3860, 4850 N. W. Front Ave., Portland 8, Oreg. (B-H-Hvy-RR)
 Gilpin Construction Co., The, 4850 N. W. Front Ave., Box 3860, Portland 8, Oreg. (B-H-Hvy-RR)

Goulter, K. L., & Co., P. O. Box 37, Dexter, Oreg. (H)
 Hall, E. C., Co., 12012 S. W. Barbur Blvd., Portland 19, Oreg. (H-Hvy-RR)
 Halvorsen, Carl M., Inc., 218 Builders Exch. Bldg., Portland 4, Oreg. (B-Hvy)
 Hamilton & Thoms, Box 726, Eugene, Oreg. (H-Hvy)
 Harding Blasting Co., 206 S. E. 146th Ave., Portland 16, Oreg. (H-Hvy)
 Harr & Horton, P. O. Box 5662, 9209 N. Calvert St., Portland 17, Oreg. (H-Hvy)
 Hauser Constr. Co., 203 Multnomah Hotel, Portland 4, Oreg. (B-H-Hvy-RR)
 Havlik, John, Jr., Scappoose, Oreg. (B-Hvy)
 Heintz, R. A., Constr. Co., 211 N. E. Columbia Blvd., Portland 11, Oreg. (Hvy)
 Henshaw Bros., 2627 N. E. Thompson, Portland 12, Oreg. (H-Hvy)
 Hoffman, Lee, 535 S. E. Water St., P. O. Box 2028, Portland 14, Oreg. (H-Hvy)
 Hoyt, Chas. H., 107 S. 1st, Silverton, Oreg. (H-Hvy)
 Huenergard Elec. Co., 611 N. W. Glisan, Portland 9, Oreg. (H-Hvy)
 Inter-City Sand & Gravel Co., Inc., 3698 S. 99th, Eugene, Oreg. (H-Hvy)
 Jacobsen, K. F., & Co., Inc., 0445 S. W. Porter St., Portland 1, Oreg. (H-Hvy)
 James & Yost, Inc., 1610 S. W. Jefferson St., P. O. Box 1025, Portland 7, Oreg. (B-Hvy)
 Jarl, Vernie, Box 254, Gresham, Oreg. (H)
 Kern & Kibbe, 8706 N. Bradford St., P. O. Box 2560, Portland 3, Oreg. (B-H-Hvy-RR)
 Ketell Constr. Co., 320 Board of Trade Bldg., Portland 4, Oreg. (B-Hvy)
 Kiewit, Peter, Sons' Co., 8th & Douglas, P. O. Box 491, Longview, Wash. (H-Hvy-RR)
 Kirkpatrick Constr. Co., 1005 36 Ave., Milwaukie 2, Oreg. (B-Hvy)
 Kuckenberg Constr. Co., 11104 N. E. Holman St., P. O. Box 7407, Parkrose Sta., Portland 20, Oreg. (B-H-Hvy-RR)
 Lackey, Chester T., Box 787, Redmond, Oreg. (H)
 Leonard & Slate Oregon, Ltd., 7805 S. W. 40th Ave., P. O. Box 7128, Portland 19, Oreg. (H-Hvy-RR)
 Lillebo, Tom, Reedsport, Oreg. (H-Hvy)
 Lind, Geo. W., 5000 N. E. Killingsworth Ave., Portland 13, Oreg. (H-Hvy)
 Lindstrom Bros., Inc., 7335 N. E. Broadway, Portland 16, Oreg. (B-H-Hvy)
 Lininger, M. C., & Sons, Hamrick Rd., P. O. Box 1386, Medford, Oreg. (H)
 Lord, P. S., Mechanical Contrs., 4507 S. E. Milwaukie Ave., P. O. Box 4505, Portland 2, Oreg. (Hvy)
 Lyons, Frank, & Co., 5200 N. E. Alberta, Portland 13, Oreg. (H-Hvy-RR)
 Macco Corp., 14409 S. Paramount Blvd., Paramount, Calif. (H-Hvy)
 Malcolm, C. T., 4085 N. Columbia Blvd., P. O. Box 5652, Kenton Sta., Portland, Oreg. (H-Hvy)
 McCormack Constr. Co., S. E. 3d & Goodwin Sts., Pendleton, Oreg. (B-Hvy)
 McDougall, Natt, Co., 824 Pittcock Block, Portland 5, Oreg. (B-H-Hvy-RR)

OREGON—Continued

- McKenzie, D. F., 1465 Mission St., Salem, Oreg. (H-Hvy)
 McKinnon Constr. Co., Rt. 1, Box 187, Sandy, Oreg. (H-Hvy)
 McNary Dam Contrs., P. O. Box 132, Umatilla, Oreg. (Hvy)
 McNutt Bros., 351½ E. Broadway, Eugene, Oreg. (H-Hvy-RR)
 Miller & Strong, Inc., 3871 Royal Rd., Eugene, Oreg. (H-Hvy)
 Minnis & Shilling, 3144 W. 11th St., Eugene, Oreg. (H-Hvy)
 Montag, C. J. & Sons, 7805 N. E. Halsey, Portland 13, Oreg. (B-H-Hvy)
 Morrison & Fisher, P. O. Box 82, Walla Walla, Wash. (H)
 Morrison-Knudsen Co., Inc., Amboy, Wash. (B-H-Hvy-RR)
 Newport Constr. Co., 7031 N. E. Halsey St., Portland 13, Oreg. (H-Hvy-RR)
 Norris, Guy J., Rt. 1, Box 32, Shelton, Wash. (H)
 Olson, Russell, Constr. Co., 144 S. E. 1st Ave., P. O. Box 272, Pendleton, Oreg. (H)
 O'Neil, C. R., Box 346, North Powder, Oreg. (H-Hvy)
 Oregon Asphaltic Paving Co., 0441 S. W. Porter, Portland 1, Oreg. (H-Hvy-RR)
 Palmberg, H. G., Pier 3, Port Docks, P. O. Box 991, Astoria, Oreg. (Hvy)
 Papin, J. C., Rt. 1, Box 258, Sandy, Oreg. (H-Hvy-RR)
 Parker-Schram Co., 200 Builders Exch. Bldg., Portland 4, Oreg. (B-H-Hvy-RR)
 Penepacker, Frank, 400 N. Thompson St., Portland 12, Oreg. (H-Hvy)
 Perkins Bros., 8535 S. E. Stark St., Portland 16, Oreg. (H-Hvy)
 Peterson, H. M. & Co., 13548 N. E. Glisan, Portland, Oreg. (H-Hvy)
 Port Constr. Co., 905 E. 1st, P. O. Box 868, Port Angeles, Wash. (H-Hvy)
 Portland Tug & Barge Co., 8444 N. W. St. Helens Rd., P. O. Box 4199, Portland 8, Oreg. (Hvy-RR)
 R & M Constr. Co., 136 Main St., P. O. Box 1673, Central Point, Oreg. (H)
 Ramsey Constr. Co., 2399 N. 9th St., P. O. Box 507, Corvallis, Oreg. (H)
 Raymond Concrete Pile Co., 414 Equitable Bldg., Portland 4, Oreg. (Hvy)
 Reed, Duffy, Constr. Co., Box 1092, Twin Falls, Idaho (H)
 Robinson, Jack, Rt. 1, Box 15, Bend, Oreg. (H)
 Robson, R. M., 4720 N. E. Going St., P. O. Box 5085, Portland 13, Oreg. (B-Hvy)
 Rogers Constr. Co., 11760 N. E. Glisan, Portland 16, Oreg. (H-Hvy)
 Rush Constr. Co., 304 W. Main, Enterprise, Oreg. (H)
 Rushlight Automatic Sprinkler Co., 55 N. E. Farragut St., Portland 11, Oreg. (B-Hvy)
 Sackett, Allen E., P. O. Box 296, 802 9th St., Hood River, Oreg. (H-Hvy)
 Salem Sand & Gravel Co., 1405 N. Front St., Salem, Oreg. (H-Hvy)
 Samuel, B. H. & Sons, 2435 N. E. 37 Ave., Portland 13, Oreg. (Hvy-RR)
 Saxton, A. H., & Sons, Rt. 2, P. O. Box 200, Corvallis, Oreg. (H-Hvy)
 Smith Bros. Gen. Contrs., Inc., 3801 4th Plain Rd., P. O. Box 96, Vancouver, Wash. (Hvy)
 Smith, W. C., Inc., 1000 S. W. Vista Ave., Portland, Oreg. (B-H-Hvy)
 Somers, F. L., P. O. Box 938, Klamath Falls, Oreg. (H-Hvy)
 Soule, O. L., 2645 S. E. 11th, Portland 66, Oreg. (B-H-Hvy)
 Starr, H. A., 2425 N. Commercial St., P. O. Box 7724, Portland 12, Oreg. (B-Hvy)
 Stevenson Constr. Co., 2045 S. 19 St., Salem, Oreg. (H)
 Strong & Macdonald, Inc., 4045 Ruston Way, Tacoma 2, Wash. (H-Hvy)
 Troxell, J. A., P. O. Box 177, Enumclaw, Wash. (Hvy)
 Tru-Mix Concrete Co., 248 McAndrews Rd., P. O. Box 1147, Medford, Oreg. (H-Hvy)
 United Contr. Co., 9898 N. E. Hancock Dr., Box 5075, Portland 13, Oreg. (B-H-Hvy-RR)
 Utah Construction Co., The, 1 Montgomery St., San Francisco 4, Calif. (Hvy-RR)
 Ward, Ken, Constr. Co., 5120 S. E. Milwaukie Ave., Portland 2, Oreg. (B-Hvy)
 Warren Northwest, Inc., P. O. Box 5072, 9860 N. E. Hancock Dr., Portland 13, Oreg. (B-H-Hvy-RR)
 Watts, J. G., Constr. Co., 337 Builders Exch. Bldg., Portland 4, Oreg. (B-H)
 Werner, H. C., Inc., 3170 W. 11th, Eugene, Oreg. (H-Hvy)
 White Bros. Constr. Co., Inc., P. O. Box 376, 3d & Sumach, Walla Walla, Wash. (H-Hvy)
 Willamette Tug & Barge Co., Ft. of N. Portsmouth, Box 2650, St. Johns Sta., Portland 3, Oreg. (Hvy)
 Williams Constr. Co., Rt. 1, Box 21, Tigard, Oreg. (H-Hvy-RR)
 Yett, Porter W., 6500 N. E. Ainsworth St., Portland 13, Oreg. (H-Hvy-RR)
 Yocom, O. C., 902 S. E. 11th St., P. O. Box 566, McMinnville, Oreg. (H-Hvy)
- (b) PORTLAND CHAPTER, BUILDING DIVISION**
President—Henry M. Mason, Henry M. Mason Co., Inc., 2206 N. W. Thurman, Portland 10, Oreg.
Secretary-Treasurer—J. M. Scudder, 418 Pittcock Block, Portland 5, Oreg.
Telephone: Atwater 5054
 Burns, Tom. & Co., Inc., 2940 S. E. Belmont, Portland 15, Oreg. (B)
 Drake, Donald M., Co., 904 Lewis Bldg., Portland 4, Oreg. (B)
 Halvorson, Carl M., Inc., 218 Builders Exch. Bldg., Portland 4, Oreg. (B)
 Hammond, Ross B., Co., 1241 N. Williams Ave., P. O. Box 3901, Portland 8, Oreg. (B)
 Hoffman, L. H., 715 S. W. Columbia St., Portland 1, Oreg. (B)
 Hoffman, Lee, 535 S. E. Water St., P. O. Box 2028, Portland 14, Oreg. (B)
 Industrial Engrs. & Contrs., Inc., 711 Middle Waterway, P. O. Box 1096, Tacoma, Wash. (B)
 Isackson, Geo., Co., 1825 S. E. Exeter Dr., P. O. Box 4620, Portland, Oreg. (B)
 Lorenz Bros., 603 Title & Trust Bldg., Portland 2, Oreg. (B)
 Mason, Henry M., Co., Inc., 2206 N. W. Thurman, Portland 10, Oreg. (B)
 Parker-Johnson Co., 2002 S. E. Clinton, Portland 2, Oreg. (B)
 Petersen, A. V., Co., P. O. Box 2368, Portland 14, Oreg. (B)
 Ralph & Horwitz, 1835 N. Flint Ave., Portland 12, Oreg. (B)
 Reimers & Jolivet, 435 Builders Exch. Bldg., Portland 4, Oreg. (B)
 Robertson, Hay & Wallace, 1801 S. E. Grand Ave., Portland 14, Oreg. (B)
 Settergren, E. E., 308 Henry Bldg., Portland, Oreg. (B)
 Smith-Phillips Co., 1000 S. W. Vista Ave., Portland 5, Oreg. (B)
 Timber Structures, Inc., P. O. Box 3782, Portland 8, Oreg. (B)
 Viesko & Post, P. O. Box 69, Salem, Oreg. (B)
 Waale-Campan Co., 2100 S. W. Jefferson St., Portland 1, Oreg. (B)
 Wegman & Co., 716 N. E. 3d Ave., Portland 14, Oreg. (B)

37. PENNSYLVANIA

(a) PENNSYLVANIA BUILDERS CHAPTER

President—Robt. D. Cremer, L. H. Focht & Son, Inc., 402 Baer Bldg., Reading, Pa.
Executive Director—Geo. M. Schmeltzer, 2501 N. Front St., Harrisburg, Pa.
Telephone: 4-8056

- Alexander, H. B., & Son, Inc., 315 Vaughn St., Harrisburg, Pa. (B)
 Austin, E. E., & Son, 20th & Reed Sts., Erie, Pa. (B)
 B. D. & W., Inc., P. O. Box 63, Carlisle, Pa. (B)
 Bell, W. S., 119 Albright Ave., Greenawald, Allentown, Pa. (B)
 Berkebile Bros., 626 Swank Bldg., Johnstown, Pa. (B)
 Berretta Constr. Co., 246 Harland St., Exeter, Pa. (B)
 Carstensen, Inc., 302 Swank Bldg., Johnstown, Pa. (B)
 Coon, B. G., Constr. Co., 278 Union St., Luzerne, Pa. (B)
 Cump, Earl L., 251 Park Ave., Chambersburg, Pa. (B)
 Cuppels, F. J., 470 Tioga St., Kingston, Pa. (B)
 Curtis-Pethick Co., The, 1 Hickory St., Wilkes-Barre, Pa. (B)
 Davis, C. C., Constr. Co., Rear 220 Bridge St., New Cumberland, Pa. (B)
 Evert, S. H., Co., Inc., Danville Rd., P. O. Box 89, Bloomsburg, Pa. (B)
 Focht, L. H., & Son, Inc., 402 Baer Bldg., Reading, Pa. (B)
 Gehron, Jacob, Co., Inc., The, 607 Cemetery St., Williamsport 33, Pa. (B)
 Hafer, Guy J., 739 Fairground Ave., Chambersburg, Pa. (B)

(Symbols following names indicate type of construction performed by company; B—Building; H—Highway; Hvy—Heavy; RR—Railroad.)

A.G.C. DIRECTORY

PENNSYLVANIA—Continued

Helwig, Fred R., 801 State St., Millersburg, Pa. (B)
Hunsicker, L. W., Co., 821 Chew St., Allentown, Pa. (B)
Kline, Boyd H., Berwick Rd., Bloomsburg, Pa. (B)
Lentz, John P., 463 E. Main St., Dallastown, Pa. (B)
Machin, E. C., Inc., 1024 N. Quebec St., Allentown, Pa. (B)
Mastriani, S. G., Co., 522 Lincoln Trust Bldg., Scranton, Pa. (B)
McKinney Constr. Co., Chestnut & Awl Sts., Sunbury, Pa. (B)
Mowery, Raymond S., P. O. Box 367, Carlisle, Pa. (B)
Nanticoke Constr. Co., 120 Arch St., Nanticoke, Pa. (B)
Neenan, R. S., Inc., 26 N. Duke St., York, Pa. (B)
Orr, J. C., & Son, 438 7th Ave., Altoona, Pa. (B)
Ortman & Reitze, P. O. Box 448, Meadville, Pa. (B)
Outdoor Display Co., 26 E. Market St., Lewistown, Pa. (B)
Reindollar, I., & Son, 35 N. George St., York, Pa. (B)
Ritter Bros., 1511 N. Cameron St., Harrisburg, Pa. (B)
Seiple, Stanford C., 809 N. 7th St., Sunbury, Pa. (B)
Sessinghaus & Ostergaard, Inc., 1115 Peach St., Erie, Pa. (B)
Shenk, Henry, Co., 1115 Sassafras St., Erie, Pa. (B-Hvy)
Sordoni Constr. Co., Inc., 45 Owen St., Forty Fort, Wilkes-Barre, Pa. (B-Hvy)
Stoudt, H. E., & Son, Inc., 1212 S. 5th St., Allentown, Pa. (B)
Tabone & Barbera, 186 N. Main St., Pittston, Pa. (B)
Upton-Lang Co., 1009 Commerce Bldg., Erie, Pa. (B)
Warner, A. R., & Son, 41 E. Main St., Waynesboro 41, Pa. (B)
Williams, H. A., 437 N. 23d St., Allentown, Pa. (B)
Wilson Constr. Co., Inc., 305 Bedford St., Johnstown, Pa. (B)
Yenter, J. C., Pennsylvania Ave., Tyrone, Pa. (B)

(b) MASTER BUILDERS ASSOCIATION OF ALLEGHENY COUNTY

President—Noble J. Dick, Dick Constr. Co., 2532 Library Rd., Pittsburgh 10, Pa.
Secretary—Wm. C. Bowden, 800 Standard Life Bldg., Corner of 4th Ave. & Smithfield St., Pittsburgh 22, Pa.
Telephone: Atlantic 1-2594

Allegheny Bldg. & Supply Co., 9th & Bingham Sts., Pittsburgh 3, Pa. (B)
Busse, Henry, 112 Wabash St., Pittsburgh 20, Pa. (B)
Chilli, Geo. H., 1st Natl. Bk. Bldg., Homestead, Pa. (B)
Crump, Edw., Jr., Inc., 4031 Bigelow Blvd., Pittsburgh 13, Pa. (B)

Dick Constr. Co., 2532 Library Rd., Pittsburgh 10, Pa. (B)
Eichleay Corp., 33 S. 19th St., Pittsburgh 3, Pa. (B)
Fuller, George A. Company, 511 Wood St., Pittsburgh 22, Pa. (B)
Goodwin, C. J., 6201 Station St., Pittsburgh 6, Pa. (B)
Groomes Constr. Co., 202 Highland Ave., Cheswick, Pa. (B)
Harrison Construction Company, 1101 Western Ave., Pittsburgh 33, Pa. (B-Hvy)
Hoffman, F., Co., 901 Wood St., Wilkesburg 21, Pa. (B)
Holmes Corp., The, P. O. Box 42, Glenshaw, Pa. (B)
Hospital Constrs., Inc., 7025 Campania Ave., Pittsburgh 6, Pa. (B)
Landau Bros. Bldg. Co., 125 1st Ave., Pittsburgh 22, Pa. (B)
Martin & Nettletrout Contr. Co., Pitt Bk. Bldg., Pittsburgh 22, Pa. (B)
Martin, O. H., Co., 18 1st St., Sharpsburg, Pittsburgh 15, Pa. (B)
Mellon-Stuart Co., 210 E. Park Way, Pittsburgh 12, Pa. (B)
Minnotte Bros. Co., Riverton St. & Baldwin Rd., Hays, Pittsburgh, Pa. (B)
Morgan & Co., 439 8th Ave., Homestead, Pa. (B)
Navarro Corp., 6219 Broad St., Pittsburgh 6, Pa. (B)
Ragner-Benson, Inc., 801 Investment Bldg., Pittsburgh 22, Pa. (B)
Riffle, David T., Inc., 1006 Forbes St., Pittsburgh 19, Pa. (B)
Robison Constr. Co., 419 Melwood St., Pittsburgh 13, Pa. (B)
Seaman Co., 5145 Liberty Ave., Pittsburgh 24, Pa. (B)
Siesel Constr. Co., 204 Flannery Bldg., Pittsburgh 13, Pa. (B)
Trimble Co., The, 1719 Pennsylvania Ave., Pittsburgh 33, Pa. (B)
Turner Construction Co., 405 Oliver Ave., Pittsburgh 19, Pa. (B)
Uhl Constr. Co., Box 308, Allison Park, Pa. (B)
Unkefer Bros. Constr. Co., 516 Bessemer Bldg., Pittsburgh 22, Pa. (B)
Wehr, Edw. A., Highland Bldg., Pittsburgh 6, Pa. (B)
Wilcox, Ira C., Co., 6415 Hamilton Ave., Pittsburgh 6, Pa. (B)
Winner, B. L., Co., Inc., 2440 Maple Ave., Pittsburgh 14, Pa. (B)

(c) CONSTRUCTORS ASSOCIATION OF WESTERN PENNSYLVANIA

President—John E. O'Leary, Pittsburgh-Des Moines Steel Co., Neville Island, Pittsburgh, Pa.
Executive Secretary—Thurman C. Tejan, 805 Columbia Bk. Bldg., Pittsburgh 22, Pa.
Telephone: Court 1-2888

Allegheny Asphalt & Paving Co., 8th & Bingham Sts., Pittsburgh 3, Pa. (H)
Allen, H. R., Beaver, Pa. (H)
Baldwin Bros. Paving Co., 1690 Union Commerce Bldg., Cleveland, Ohio (H)
Baltes, A. J., Inc., 181 Benedict Ave., Norwalk, Ohio (H)

Barth Constr. Co., 4400 Butler St., Pittsburgh, Pa. (Hvy)
Bates & Rogers Construction Corporation, 600 W. Jackson Blvd., Chicago 6, Ill. (B-Hvy-RR)
Beaver Asphalt Paving & Constr. Co., New Brighton, Pa. (H)
Becksmith Engr. Co., 326 Bakewell Bldg., 417 Grant St., Pittsburgh 19, Pa. (H)
Ben Constr. Co., 101 Hargrove St., Pittsburgh 26, Pa. (H)
Booth & Flinn Co., 1942 Forbes St., Pittsburgh 19, Pa. (H-Hvy)
Boquet Constr. Co., Inc., 4662 Old Boston Rd., Pittsburgh 10, Pa. (H)
Brayman Constr. Co., 67 N. Harrison Ave., Pittsburgh 2, Pa. (Hvy)
Brotemarkle, S. T., Constr. Co., P. O. Box 393, Cumberland, Md. (H)
Bryan, Frank, Inc., 1623 Chartiers Ave., McKees Rocks, Pa. (H-Hvy)
Burrell Constr. & Supply Co., 1 5th St., New Kensington, Pa. (H)
Cafardi, A. R., 116 Craft Ave., Pittsburgh 13, Pa. (Hvy)
Casey, John F., Co., P. O. Box 1888, Pittsburgh 30, Pa. (Hvy-RR)
Cornish Constr. Co., 214 Alexander Ave., Greensburg, Pa. (Hvy)
Corol Constr. Corp., 509 N. Homewood Ave., Pittsburgh 8, Pa. (H)
Craft Constr. Co., 215 Lothrop St., Pittsburgh, Pa. (H)
DeFelice, L. G., & Son, Inc., Nettleton Ave., North Haven, Conn. (H-Hvy)
Dinardo, Inc., 331 Bouquet St., Oakland Sta., Pittsburgh 13, Pa. (H-Hvy)
Diulus Constr. Co., Inc., 4610 Barland Dr., Mt. Lebanon, Pittsburgh 10, Pa. (H)
Donatelli, Frank, Co., Inc., Broad & Euclid Aves., Pittsburgh 6, Pa. (H-Hvy)
Dravo Corporation, The Contracting Division, Neville Island, Pittsburgh 25, Pa. (Hvy)
Eichleay Corp., 33 S. 19th St., Pittsburgh 3, Pa. (Hvy)
Eidemiller, Adam, Greensburg, Pa. (H-Hvy)
Ferguson & Edmondson Co., 412 Keystone Bldg., Pittsburgh 22, Pa. (H-Hvy-RR)
Freeland Constr. Co., 402 Keystone Bldg., Pittsburgh 22, Pa. (H-Hvy)
Galiardi Constr. & Supply Co., 801 2d Natl. Bk. Bldg., Connellsville, Pa. (H)
Groves, S. J., & Sons Co., Rt. 35 at Port Reading RR, P. O. Box 485, Woodbridge, N. J. (H-Hvy)
Harrison Construction Company, 1101 Western Ave., Pittsburgh 33, Pa. (H-Hvy)
Hazelwood, Geo. F., Co., Inc., The, 36 Howard St., Cumberland, Md. (H)
Holderman, V. N., & Sons, Inc., 890 E. Oakland Park Ave., Columbus 11, Ohio (H)
Holmes Constr. Co., The, Wooster, Ohio (Hvy)
Hunkin-Conkey Constr. Co., The, 1740 E. 12th St., Cleveland 14, Ohio (H-Hvy)
Indyk Constr. Co., Inc., Box 215, Houston, Pa. (Hvy)
Istock, Nick, 704 Ann St., Aliquippa, Pa. (Hvy)
Jacobsen, Carl J., 1840 Cecil St., Sharpsburg, Pa. (Hvy)
Jacobson, Bert A., Co., Inc., 2006 Law & Finance Bldg., Pittsburgh 19, Pa. (Hvy)

PENNSYLVANIA—Continued

- Johnson, Drake & Piper, Inc., 86 Trinity Pl., New York 6, N. Y. (H-Hvy)
 Johnson, W. L. Construction Co., 209 E. High St., Hicksville, Ohio (H-Hvy-RR)
 Kelley & Meyer Co., The, 1211 Gibson St., Youngstown, Ohio (H)
 Kline & Schmidt, Monaca, Pa. (H)
 Langenfelder, C. J., & Son, Inc., 8427 Pulaski Hwy., Baltimore 24, Md. (H)
 Latrobe Constr. Co., P. O. Box 150, Latrobe, Pa. (H-Hvy)
 M & S Constr. Co., Inc., 1558 Electric Ave., East Pittsburgh, Pa. (H)
 Macdonald Engr. Co., 188 W. Randolph St., Chicago 1, Ill. (Hvy)
 Mannella, Frank, Constr. Co., 7003 Chaucer St., Pittsburgh 8, Pa. (Hvy)
 Mario Constr. Co., Inc., 15 Boundary St., Pittsburgh 13, Pa. (H)
 Marion Coal & Supply Co., Jones Law Bldg., Pittsburgh, Pa. (H)
 Martin, O. H., Co., 18 1st St., Sharpsburg, Pittsburgh 15, Pa. (Hvy)
 Mashuda, Frank, Co., 5556 W. Roosevelt Dr., Milwaukee 10, Wis. (H)
 McCrady Constr. Co., 304 Ross St., Pittsburgh 19, Pa. (H-Hvy)
 McQuade, Jas. H., & Sons Co., 417 Grant St., Pittsburgh 19, Pa. (Hvy)
 McShane Contr. Co., 1007 McCartney St., Pittsburgh, Pa. (Hvy)
 Medis, Paul L., 209 Saw Mill Run Blvd., Pittsburgh 26, Pa. (H)
 Mountaineer Engr. Co., Inc., Sharon Grade Rd., R. D. 1, Coraopolis, Pa. (Hvy)
 Myers, Ralph, Contr. Corp., Salem, Ind. (H)
 Nardulli & Sons Co., Inc., 947 Butler St., Pittsburgh 23, Pa. (H)
 O'Herron, M., Co., 4002 Lorigan St., Pittsburgh 24, Pa. (H)
 Palombo, D., Sons, 1600 Washington Rd., Pittsburgh 16, Pa. (H)
 Patterson, Frank O., Monongahela, Pa. (H-Hvy)
 Pavia Co., The, Verona Rd., Verona, Pa. (H-Hvy)
 Perini, B., & Sons, Inc., P. O. Box 8157, Squirrel Hill Sta., Pittsburgh, Pa. (H-Hvy)
 Pittsburgh-Des Moines Steel Co., Neville Island, Pittsburgh, Pa. (Hvy)
 Plummer, J. Lee, Inc., Beaver Rd., Sewickley, Pa. (H)
 Porterfield-Binger Co., Youngstown, Ohio (H)
 Ragner Bros., Grant Bldg., Pittsburgh 19, Pa. (Hvy)
 Reason, Edw., 3031 W. Liberty Ave., Pittsburgh 16, Pa. (Hvy)
 Rider Constr. Co., Charleroi, Pa. (H)
 Rupp Bros., Inc., Box 81, Kittanning, Pa. (H)
 Sanctis Constr., Inc., 410 Marlowe St., Pittsburgh 20, Pa. (H-Hvy)
 Susquehanna Paving Materials Co., Sunbury, Pa. (Hvy)
 Trimble Co., The, 1719 Pennsylvania Ave., Pittsburgh 33, Pa. (Hvy-RR)
 Vang, Geo., Inc., Grant Bldg., Pittsburgh 19, Pa. (Hvy)
 Wandel, Bruce B., 1615 Bidwell St., Pittsburgh, Pa. (Hvy)
 Wescott, Louis S., Babcock Blvd. at Oak Glenn Rd., Pittsburgh 9, Pa. (H)
 Wilkins Constr. Co., 2713 Sarah St., Pittsburgh, Pa. (Hvy)
 Winkelman, D. W., Co., Inc., 205 Harrison St., Syracuse 2, N. Y. (H-Hvy)
 Yount, R. F., Co., Box 101, Kittanning, Pa. (H)
- (d) PHILADELPHIA CHAPTER**
- President—Gerhard J. Lauter, Lauter Constr. Co., 112 S. 16th St., Philadelphia 2, Pa.**
Secretary—Harry P. Taylor, Suite 210, Architects Bldg., 17th & Sansom Sts., Philadelphia 3, Pa.
Telephone: Rittenhouse 6-4606 & 4607
- Bachmann, Geo., Co., 21 N. 30th St., Camden 5, N. J. (B)
 Baker, Wm. D., Co., 1717 Sansom St., Philadelphia 3, Pa. (B)
 Ballinger, R. C., Co., Nat'l Bk. of Narberth Bldg., Narberth, Pa. (B)
 Baton Constr. Corp., 1717 Sansom St., Philadelphia 3, Pa. (B)
 Breneman, J. E., Co., 121 S. Broad St., Philadelphia 7, Pa. (B-Hvy)
 Brosz, Paul, & Sons, Inc., 2511 W. Huntingdon St., Philadelphia 32, Pa. (B)
 Campion, F. K., 1905 Spring Garden St., Philadelphia 30, Pa. (B)
 Clearkin, Jas. J., 4450 Leiper St., Philadelphia 24, Pa. (B)
 Cornell, J. S., & Son, Inc., 1528 Cherry St., Philadelphia 2, Pa. (B)
 Davis, F. B., Sons, 240 N. 16th St., Philadelphia 2, Pa. (B)
 Day & Zimmermann, Inc., 1700 Sansom St., Philadelphia 3, Pa. (B)
 Driscoll, L. F., Co., 18 W. Chelten Ave., Philadelphia 44, Pa. (B)
 Durell, E. Clifford, & Son, Inc., 1910 N. Marshall St., Philadelphia 22, Pa. (B)
 Eddleman, C. C., 419 Green Lane (Roxborough), Philadelphia 28, Pa. (B)
 English, Frank G., & Sons, 1606 N. Carlisle St., Philadelphia 21, Pa. (B)
 Evans, Geo. H., & Co., 1914 Spring Garden St., Philadelphia 30, Pa. (B)
 Farrell, Jos. R., 4422 Market St., Philadelphia 4, Pa. (B)
 Fleming Co., 1717 Sansom St., Philadelphia 3, Pa. (B)
 Gill, Harry, Co., 2513 Germantown Ave., Philadelphia 33, Pa. (B)
 Golder Constr. Co., Inc., Market St. Nat'l Bk. Bldg., Philadelphia 7, Pa. (B)
 Goldman, Perry J., Constr. Co., Lewis Tower Bldg., 15th & Locust Sts., Philadelphia 2, Pa. (B)
 Grau, H. C., Sr., 4019 Sansom St., Philadelphia 4, Pa. (B)
 Hallahan, John P., Inc., 1602 Finance Bldg., Philadelphia 2, Pa. (B)
 Haverstick-Borthwick Co., 1505 Race St., Philadelphia 2, Pa. (B)
 Horst, Henry W., Co., 1505 Race St., Philadelphia 2, Pa. (B-Hvy)
 Hughes-Foulkrod Co., 1505 Race St., Philadelphia 2, Pa. (B)
 Hunt, David M., Otis Bldg., 112 S. 16th St., Philadelphia 2, Pa. (B)
 Irwin & Leighton, 1505 Race St., Philadelphia 2, Pa. (B)
 Keefer, E. H., & Son, 1321 Rodman St., Philadelphia 47, Pa. (B)
 Kidde, Walter, Constrs., Inc., 140 Cedar St., New York 6, N. Y. (B)
 Kuljian Corp., 1200 N. Broad St., Philadelphia 21, Pa. (B)
 Laessle Bldrs., Inc., Architects Bldg., Philadelphia 3, Pa. (B)
 Lamb, Robt. E., & Son, Inc., 3429 W. Indiana Ave., Philadelphia 32, Pa. (B)
 Larkin, Frank J., Constr. Co., 1520 Parrish St., Philadelphia 30, Pa. (B)
 Laub Constr. Co., Inc., 1518 Walnut St., Philadelphia 2, Pa. (B)
 Lauter Constr. Co., 112 S. 16th St., Philadelphia 2, Pa. (B)
 Linker, Wm., Co., Inc., 2036 Arch St., Philadelphia 3, Pa. (B)
 Lotz, Wm. F., 1000 Orthodox St., Philadelphia 24, Pa. (B)
 M. & L. Constr. Co., 108 S. 40th St., Philadelphia 4, Pa. (B)
 Master Masons Constr. Co., 1619 W. Thompson St., Philadelphia 21, Pa. (B)
 McQuade, John S., Jr., 1318-20-22 Parrish St., Philadelphia 23, Pa. (B)
 McShain, Inc., 17th & Spring Garden, Philadelphia, Pa. (B)
 Murphy-McDonnell Co., 104 69th St. Theatre Bldg., Upper Darby, Pa. (B)
 Murphy-Quigley & Co., 1518 Sansom St., Philadelphia 2, Pa. (B)
 Murrell Constr. Co., 1516 W. Thompson St., Philadelphia 21, Pa. (B)
 Nason & Cullen, 6522 Vine St., Philadelphia 39, Pa. (B)
 Neiman Co., 1127 Western Saving Fund Bldg., Philadelphia 7, Pa. (B)
 Rafferty, John E., Jr., Inc., Liberty Trust Bldg., Philadelphia 7, Pa. (B)
 Reiff, Daniel L., 15 E. Airy St., Norristown, Pa. (B)
 Robbins, John A., Co., Inc., 10 S. 18th St., Philadelphia 3, Pa. (B)
 Rohleder, Chas. F., 600 Schuylkill Ave., Philadelphia 46, Pa. (B)
 Rust, Henry R., Inc., 19 S. 8th St., Philadelphia 6, Pa. (B)
 Sauter, Godfrey, 1505 Race St., Philadelphia 2, Pa. (B)
 Schwertner, Chas. H., & Son, 1220 Hamilton St., Philadelphia 23, Pa. (B)
 Shaffer, Leonard, Co., 926 Walnut St., Philadelphia 2, Pa. (B)
 Shandless, H. M., 617 Pine St., Philadelphia 6, Pa. (B)
 Shoemaker, R. M., 1619 Sansom St., Philadelphia, Pa. (B)
 Smith & Buzby, 269 S. Van Pelt St., Philadelphia 3, Pa. (B)
 Smolark, J. A., Ft. Washington, Pa. (B)
 Steele, Jack, Constr. Co., 207 Stockham Bldg., Morrisville, Pa. (B)
 Steele, Pownall & Gebhardt, Rm. 426, 1505 Race St., Philadelphia 2, Pa. (B)
 Stofflet & Tillotson, 2043 Eastburn Ave., Philadelphia 38, Pa. (B)

(Symbols following names indicate type of construction performed by company; B—Building; H—Highway; Hvy—Heavy; RR—Railroad.)

A.G.C. DIRECTORY

PENNSYLVANIA—Continued

Stoud, Wm. J., 1925 Ashley Rd., Philadelphia 38, Pa. (B)
 Sturm & Co., Inc., 4531-33 N. Front St., Philadelphia 40, Pa. (B)
 Taggart, Henry M., Inc., 1924 Chestnut St., Philadelphia 3, Pa. (B)
 Towne Constr. Co., 1505 Race St., Philadelphia 2, Pa. (B)
 Townsend & Elfreth Co., 1601 Chestnut St., Philadelphia 3, Pa. (B)
 Turner Construction Co., 1500 Walnut St., Philadelphia 2, Pa. (B)
 United Bldg. Constr. Co., 845 N. 19th St., Philadelphia 30, Pa. (B)
 Unkefer Bros. Constr. Co., Otis Bldg., Philadelphia 2, Pa. (B)
 Wallace, Wm., 337 S. Camac St., Philadelphia 7, Pa. (B)
 Wambold, Edgar M., 201 N. Broad St., Philadelphia 7, Pa. (B)
 Wark & Co., 1920 Sansom St., Philadelphia 3, Pa. (B)
 Warren, F. V., Inc., 925 W. Thompson St., Philadelphia 22, Pa. (B)
 White, Barclay & Co., Inc., 22 N. 36th St., Philadelphia 4, Pa. (B)
 Wigton-Abbott Corporation, 1225 South Ave., Plainfield, N. J. (B)
 Wilson, Frank H., 125 Coulter Bldg., Ardmore, Pa. (B)
 Wininger & Selby, Inc., 10 Rockefeller Plaza, New York 20, N. Y. (B)
 Wintz, Frank L. & Son, 1618 N. 27th St., Philadelphia 21, Pa. (B)
 Wolfe Constr. Co., N. E. Corner 17th & Thompson Sts., Philadelphia 21, Pa. (B)
 Yellin, S., & Son, Inc., 222 N. 11th St., Philadelphia 7, Pa. (B)

38. RHODE ISLAND

(a) RHODE ISLAND CHAPTER

President—Frederick E. Bowerman, Bowerman Bros., 70 Bath St., Providence 8, R. I.
Secretary—Prescott W. N. Gustafson, Frank N. Gustafson & Sons, Inc., 251 Pitman St., Providence 6, R. I.
 Ahlborg, O., & Sons, Inc., 48 Molter St., Cranston, R. I. (B)
 Argentieri Constr. Co., 49 Weybosset St., Providence 3, R. I. (B)
 Ayers-Hagan-Booth, Inc., 35 Westminster St., Providence 3, R. I. (B)
 Beals, A. C., Co., 63 Bassett St., Providence 3, R. I. (B)
 Bowerman Bros., 70 Bath St., Providence 8, R. I. (B)
 Brien Bldg. Co., Inc., 144 Court Sq., Woonsocket, R. I. (B)
 Central Engr. & Constr. Co., 210 Main St., Pawtucket, R. I. (B-Hvy)
 Coleman Constr. Co., Inc., 49 Westminster St., Providence 3, R. I. (B)
 Collins, H. V., 7 Dyer St., Providence 3, R. I. (B)
 Dimeo Constr. Co., 75 Westminster St., Providence 3, R. I. (B)
 Flynn, Jos. P., 26 Custom House St., Providence 7, R. I. (B)

Gilbane Bldg. Co., 90 Calverly St., Providence, R. I. (B-Hvy)
 Gustafson, Frank N., & Sons, Inc., 251 Pitman St., Providence 6, R. I. (B)
 Hope Bldg. Co., Inc., Box 358, Providence 3, R. I. (B)
 Marshall, J. L., & Sons, Inc., 560 York Ave., Pawtucket, R. I. (B)
 Middleton, G. W., 36 Exchange Pl., Providence, R. I. (B)
 Molony & Rubien Constr. Co., 66 Wickenden St., Providence, R. I. (B)
 Purington, O. D., Co., Inc., 171 Westminster St., Providence, R. I. (B)
 Rowley Constr. Co., 260 Central Ave., Pawtucket, R. I. (B)
 Sinclair, John M., 44 Burlington St., Providence 6, R. I. (B)
 Smiley, A. F., Constr., Co., 115 Trenton St., Pawtucket, R. I. (B)
 Soule, Henry M., Co., 421 Walcott St., Pawtucket, R. I. (B)
 Turgeon, E., Constr. Co., Inc., 42 Weybosset St., Providence 3, R. I. (B)

39. SOUTH CAROLINA

See Carolinas Branch (page 292)

40. SOUTH DAKOTA

(a) HIGHWAY CONSTRUCTION INDUSTRY OF SOUTH DAKOTA, INC.

President—P. A. Bradbury, P. A. Bradbury Constr. Co., Box 636, Aberdeen, S. Dak.
Secretary—W. S. Hannan, Sr., Hyde Block, P. O. Box 467, Pierre, S. Dak. Telephone: 2994

Alexander Constr. Co., 4641 Hiawatha Ave., Minneapolis 6, Minn. (H)
 Ashworth & Son Co., 3601 Alabama Ave., Minneapolis 16, Minn. (H)
 Bartholow, W. E., & Son Constr. Co., 8 Masonic Bldg., Huron, S. Dak. (H)
 Beckman, J. H., Constr. Co., 1730 S. 10th Ave., Sioux Falls, S. Dak. (H)
 Bonesteel & Hyde, Box 132, Pierre, S. Dak. (H)
 Bradbury, P. A., Constr. Co., Box 636, Aberdeen, S. Dak. (H)
 Central Constr. Co., W. 12th St., P. O. Box 252, Sioux Falls, S. Dak. (H)
 Chase Constr. Co., Box 9, Rapid City, S. Dak. (H)
 Christie, Richard H., Box 66, Wasta, S. Dak. (H)
 Craig, Jay W., Co., 1814 N. E. California St., Minneapolis 13, Minn. (H)
 Creager Bros. Constr. Co., Box 99, Fort Pierre, S. Dak. (H)
 Cummins, F. I., Constr. Co., 2101 S. Norton Ave., Sioux Falls, S. Dak. (H-Hvy)
 Emme, H. F., Constr. Co., Box 1311, Rapid City, S. Dak. (H)
 England & Roth Constr. Co., 712 St. Cloud St., Rapid City, S. Dak. (H-Hvy)
 Gustafson, Dave, & Co., Inc., 502 E. 6th St., Sioux Falls, S. Dak. (H)
 Gustafson, S. E., Constr. Co., W. 12th St., Box 453, Sioux Falls, S. Dak. (H)

Haggart Constr. Co., The, Box 1310, Fargo, N. Dak. (H)
 Harris Constr. Co., Box 348, Faulkton, S. Dak. (H-RR)
 Healy, J. L., Constr. Co., 301 Western Surety Bldg., Sioux Falls, S. Dak. (H)
 Hector Constr. Co., Inc., Hector, Minn. (H)
 Herr, Albert, Constr. Co., Webster, S. Dak. (H)
 Inland Constr. Co., P. O. Box 790, Rapid City, S. Dak. (H-Hvy-RR)
 Johnson, H. W., Dakota Ave., So., P. O. Box 218, South Sioux City, Nebr. (H)
 Kiewit, Peter, Sons' Co., North Western Warehouse Bldg., 413 6th St., Rapid City, S. Dak. (B-H-Hvy-RR)
 Lien, C. H., Constr. Co., Inc., Box 1807, Rapid City, S. Dak. (H)
 Lindekugel & Sons Rd. Constr. Co., Spencer, S. Dak. (H)
 McCree & Co., 918 New York Bldg., St. Paul 1, Minn. (H)
 Moore Constr. Co., 911 Clark St., Rapid City, S. Dak. (H)
 Murphy-Smestad Constr. Co., 1337 Broadway, Fargo, N. Dak. (H)
 Noel, W. H., Co., Box 1390, Jamestown, N. Dak. (H)
 Northwestern Engr. Co., 1311 St. Joe St., Box 1392, Rapid City, S. Dak. (H-Hvy)
 Oberg, Steve R., Constr. Co., 1224 E. Rice St., Sioux Falls, S. Dak. (H)
 Parker, W. J., Constr. Co., 614 Standard Oil Bldg., Omaha 2, Nebr. (H)
 Rand Constr. Co., Box 1529, Rapid City, S. Dak. (B-H)
 Richardson, Lou, Box 513, Miles City, Mont. (H)
 Rounds Constr. Co., 1017 Fulton St., Rapid City, S. Dak. (H)
 Rue Constr. Co., Box 834, Bismarck, N. Dak. (Hvy)
 Schimkat & Kost, P. O. Box 61, Onida, S. Dak. (H)
 Schnuerle, A. W., Riverside Rd., Box 634, Aberdeen, S. Dak. (H)
 Sorenson, J. C., Box 156, Trent, S. Dak. (H)
 Stapp, Floyd D., Constr. Co., Box 1211, Rapid City, S. Dak. (H)
 Stump & Stradinger, Mobridge, S. Dak. (H)
 Summit Constr. Co., P. O. Box 1609, Rapid City, S. Dak. (H)
 Teneffos Constr. Co., 1205 S. 9th St., Box 1363, Fargo, N. Dak. (H)
 Wagner, C. A., Constr. Co., 230 E. 8th St., Sioux Falls, S. Dak. (H-Hvy)
 Western Contracting Corporation, 400 Benson Bldg., Sioux City 15, Iowa (H-Hvy-RR)
 Western Engr. Co., Box 350, Harlan, Iowa (B-H)
 Wilhelm, C. H., Faulkton, S. Dak. (H)

Local Members

Brezina Construction Company, Inc., P. O. Box 743, Rapid City, S. Dak. (B)
 Carlson, Henry, Company, Sioux Falls, S. Dak. (B)
 Kyburz Construction Company, 208 Kresge Bldg., Aberdeen, S. Dak. (B)
 Sioux Falls Construction Company, 800-820 S. 7th Ave., Sioux Falls, S. Dak. (B-Hvy-RR)

41. TENNESSEE**MISSISSIPPI VALLEY FLOOD CONTROL BRANCH**

See Mississippi (page 284)

(a) CHATTANOOGA CHAPTER**President**—John Martin, Sr., John Martin Co., Inc., 610 W. Manning St., Chattanooga, Tenn.**Counsel**—Jere T. Tipton, 1033 Volunteer State Life Bldg., Chattanooga, Tenn.**Telephone:** 7-1191

Allen, Robt. L., 406 Forrest Ave., Chattanooga, Tenn. (B-H)
 Brown Bros., P. O. Box 946, Chattanooga 1, Tenn. (H-Hvy)
 Brown, Dave L., 1800 Central Ave., Chattanooga, Tenn. (H-Hvy)
 Collins & Hobbs, 4013 Tennessee Ave., Chattanooga, Tenn. (B)
 Davis, O. B., Constr. Co., 401 N. Market St., Chattanooga, Tenn. (B)
 Hamby Constr. Co., Inc., E. Washington St., Box 426, Athens, Tenn. (B)
 Lindsey, J. W. B., Co., 401 N. Market St., Chattanooga, Tenn. (B)
 Martin, John, Co., Inc., 610 W. Manning St., Chattanooga, Tenn. (B)
 Parks, T. U., Co., 1700 Kirby Ave., Chattanooga, Tenn. (B)
 Payne & Harris, 1077 Duncan Ave., Chattanooga, Tenn. (B-H-Hvy)
 Stein Constr. Co., 1077 Duncan Ave., Chattanooga, Tenn. (Hvy)
 Verhey Constr. Co., 207 N. Holly St., P. O. Box 306, Chattanooga, Tenn. (B)
 Warlick, L. A., Constr. Co., 747 E. 11th St., Chattanooga, Tenn. (B)
 Wilson, Mark K., Co., 43 Chamberlain Bldg., Chattanooga, Tenn. (B-H)
 Wise, E. D., 1077 Duncan Ave., Chattanooga, Tenn. (H-Hvy)

(b) KNOXVILLE CHAPTER**President**—J. E. Willard, Johnson & Willard, P. O. Box 174, Knoxville 2, Tenn.**Secretary**—Chas. S. Badgett, Jr., 1011-12 Burwell Bldg., Knoxville, Tenn.**Telephone:** 4-3689

Bowman, Dave, Constr. Co., P. O. Box 509, 980 N. Broadway, Knoxville, Tenn. (B)
 Daugherty & Waters, P. O. Box 97, Knoxville 1, Tenn. (B)
 Dunn, J. M., & Son, 245 Broadway, Knoxville 17, Tenn. (B)
 Emory & Richards, Central & Quincy, Knoxville 17, Tenn. (B)
 Harrison Constr. Co., Maryville, Tenn. (B)
 Hicks, Fred E., Constr. Co., 205 Flatiron Bldg., Knoxville 17, Tenn. (B)
 Johnson & Willard, P. O. Box 174, Knoxville 2, Tenn. (B)
 McMurray, A. R., Constr. Co., 1418 Western Ave., Knoxville, Tenn. (B)
 Nicholson, V. L., Co., Box 2386, Knoxville 12, Tenn. (B)
 Roehl Constr. Co., 625 Atchley St., Knoxville, Tenn. (B)

Rogers, Howard E., 512 Proctor St., Knoxville 17, Tenn. (B)

Walters & Prater, P. O. Box 478, Morristown, Tenn. (B)

Weiss, R. L., & Son, W. Highland Dr., Fountain City, Tenn. (B)

(c) MEMPHIS CHAPTER**President**—Seth E. Giem, Seth E. Giem & Assos., 801 Roland, Memphis 3, Tenn.**Secretary-Manager**—W. W. MacLaughlin, Jr., 320 S. Dudley, Memphis, Tenn.**Telephone:** 32-1721

Alamo Constr. Co., Alamo, Tenn. (B-H)
 Brogdon Bros., 184 Neil, Memphis, Tenn. (B)
 Canfield, Badgett & Scarbrough Co., 1850 Union Ave., Apt. #2, Memphis 3, Tenn. (B)
 Clark & Fay, 4920 Poplar Ave., Memphis, Tenn. (B)
 Consolidated Contrs., 1489 Thomas St., P. O. Box 237, Memphis 1, Tenn. (B-H-Hvy)
 Creson, R. F., & Co., 741 S. Cox St., Memphis 4, Tenn. (B)
 Crouch, Robt. C., & Co., Sterick Bldg., Memphis 4, Tenn. (B)
 Dougherty-Liddell Constr. Co., P. O. Box 2839, DeSoto Sta., Memphis 2, Tenn. (B-Hvy)
 Fulghum, Geo. A., & Co., 1045 Galloway, Memphis, Tenn. (B)
 Giem, Seth E., & Assos., 801 Roland, Memphis 3, Tenn. (B)
 Irwin, Robt. L., 166 Monroe Ave., Memphis, Tenn. (B)
 Jameson, P. W., Constr. Co., 611 N. Holmes Ave., Memphis, Tenn. (B)
 Johnson-Hearn Constr. Co., Mobile Ave. & N. C. & St. L. R. R., Jackson, Tenn. (B)
 L & M Constr. Co., P. O. Box 78, Memphis, Tenn. (B-H)
 Lee Constr. Co., 402 Goodwyn Institute, Memphis, Tenn. (B)
 Lee, Frank H., & Co., 217 Bond St., West Memphis, Ark. (B)
 Madewell & Mock Constr. Co., 725 Scott Ave., Memphis, Tenn. (B)
 Maury, Sam P., Constr. Co., P. O. Box 231, Memphis 1, Tenn. (B)
 Maury & Wedaman, 2489 Parkway Pl., Memphis, Tenn. (B)
 McCrory, C. E., Constr. Co., 183 Neil St., Memphis, Tenn. (B)
 McGuire, H. A., Constr. Co., 413 Monroe Ave., Memphis 3, Tenn. (B)
 McNeese Constr. Co., 23 S. Pauline, Memphis, Tenn. (B)
 Meers, E. W. G., Constr. Co., 166 Monroe Ave., Memphis 3, Tenn. (B)
 Mid-South Contrs., Inc., 401 McCall Bldg., Memphis, Tenn. (B)
 Mississippi Valley Engr. & Constr. Co., 787 S. Willett, Memphis, Tenn. (B-Hvy)
 O'Brien, John M., 1537 Overton Park Ave., Memphis, Tenn. (B)
 Powell, L. D., Constr. Co., 728-29 M & M Bldg., Memphis 3, Tenn. (B-Hvy)
 S & W Constr. Co., Shrine Bldg., Memphis 3, Tenn. (B-H-Hvy)

Sharpe, W. L., Contr. Co., 2074 York Ave., Memphis, Tenn. (H-Hvy-RR)

Tri-State Constr. Co., 1303 Three Sisters Bldg., Memphis 3, Tenn. (B)

Turner Constr. Co., 1020 Columbian Mutual Tower, Memphis, Tenn. (B)

Tvedt, L. A., 10 N. Main Bldg., Memphis, Tenn. (B-H-Hvy)

United Constr. Co., 727 N. Parkway, Memphis, Tenn. (B)

Wessell Constr. Co., 388 N. Front St., Memphis 7, Tenn. (B)

Young, Fred, 166 Monroe Ave., Memphis, Tenn. (B)

(d) NASHVILLE CHAPTER**President**—J. A. Kelly, J. A. Kelly Co., 1419 Church St., Nashville 3, Tenn.**Secretary**—R. L. Alexander, 624 Stahlman Bldg., Nashville 3, Tenn.**Telephone:** 6-1177

Boone Contr. Co., 540 3d Natl. Bk. Bldg., Nashville 3, Tenn. (B)
 Foster & Creighton Co., American Natl. Bk. Bldg., Nashville 3, Tenn. (B-H)
 Gardner Constr. Co., P. O. Box 358, Nashville 1, Tenn. (B)
 Hailey, W. L., & Co., 314 42d Ave., No., Nashville 3, Tenn. (B-H-Hvy-RR)
 Kelly, J. A., Co., 1419 Church St., Nashville 3, Tenn. (B)
 Regen, J. B., 127 5th Ave., No., Nashville 3, Tenn. (B)
 Rock City Constr. Co., 135 4th Ave., No., Nashville 3, Tenn. (B)
 Rule, C. F., Constr. Co., 217 13th Ave., No., Nashville, Tenn. (B)
 Scroggin, J. C., Constr. Co., Woodcrest Ave., Nashville, Tenn. (B)
 Selley, D. R., 409 4th Ave., So., Nashville, Tenn. (B)
 Smith, W. R., & Son, P. O. Box 840, Nashville, Tenn. (B)
 Sumner Constr. Co., 912 8th Ave., So., Nashville 3, Tenn. (B)
 Wright, Fred., Constr. Co., 1322 Nashville Trust Bldg., Nashville 3, Tenn. (B)

(e) TRI-CITIES CHAPTER**President**—J. E. Green, P. O. Box 427, Johnson City, Tenn.**Secretary**—J. M. Mullins, Cassell Bros., 908 Bristol Hwy., Kingsport, Tenn.

Alley Constr. Co., Inc., Union Trust Bldg., Bristol, Tenn. (B-H)
 Armstrong Constr. Co., 151 Shelby St., Kingsport, Tenn. (B)
 Bays Mountain Constr. Co., Box 511, Kingsport, Tenn. (B-Hvy)
 Burleson Constr. Co., 812 W. Walnut St., P. O. Box 132, Johnson City, Tenn. (B)
 Cassel Bros., 206 W. Sullivan St., Kingsport, Tenn. (B)
 Click Constr. Co., 118 Elk Ave., Elizabethton, Tenn. (B)
 Green, Jas. E., P. O. Box 427, Johnson City, Tenn. (B)
 Harvey, J. E., 914 E. 8th Ave., Johnson City, Tenn. (B)

(Symbols following names indicate type of construction performed by company; B—Building; H—Highway; Hvy—Heavy; RR—Railroad.)

A.G.C. DIRECTORY

TENNESSEE—Continued

Johnson & Willard, 422 Front St., P. O. Box 174, Knoxville, Tenn. (B)
 Kingsolver, Arthur E., P. O. Box 894, Bristol, Va. (B)
 Myers, J. E., 218 E. Charlemont St., Kingsport, Tenn. (B)
 Rentenbach & Wright, Inc., P. O. Box 411, 217 E. Sullivan St., Kingsport, Tenn. (B)
 Sproules, W. R., Constr. Co., Clay St., Kingsport, Tenn. (B)
 Steadman Constr. Co., 147 Commerce St., Kingsport, Tenn. (B)
 Taylor Constr. Co., Inc., P. O. Box 237, Johnson City, Tenn. (H-Hvy)
 Young, B. G., & Sons, 200-300 Lamont St., Johnson City, Tenn. (H-Hvy-RR)

42. TEXAS

(a) DALLAS CHAPTER

President—T. J. Hayman, Inge-Hayman Constr. Co., Inc., 2115 Butler St., Dallas, Texas.

Managing Director—Julian Capers, Jr., 207 Thomas Bldg., Dallas 2, Texas
Telephone: Randolph 8218

Beck, Henry C., Co., 607 1st National Bk. Bldg., Dallas 2, Texas (B)
 Bennett, Henry C., Co., 1315 Cadiz St., Dallas, Texas (B)
 Bock Constr. Co., Inc., 2630 Ferris St., P. O. Box 9097, Dallas 15, Texas (B)
 Boyd, J. O., Constr. Co., 2401 Pittman Ave., Box 1343, Dallas, Texas (B)
 Brennan, Thos. P., Inc., 2231 Butler St., Dallas, Texas (B)
 Busboom & Rauh, 6910 Forest Park Rd., Dallas 9, Texas (B)
 Carpenter Bros., 1335 Plowman, Dallas 8, Texas (B)
 Cowdin Bros., 411 S. Haskell Ave., Dallas 1, Texas (B)
 Dolph Constr. Co., 3901 Elm St., Dallas 1, Texas (B)
 Dyer, Hal C., Lone Star Gas Bldg., Jackson St. Unit, Dallas 1, Texas (B)
 Eckert-Fair Constr. Co., 1307 National City Bk. Bldg., Dallas 1, Texas (B)
 Farnsworth & Chambers Co., Inc., P. O. Box 9087, Dallas, Texas (B-H-Hvy-RR)
 Fuess, C. A., & Co., 30½ Highland Park Shopping Village, Dallas 5, Texas (B)
 Henger Constr. Co., 1600 Dallas Natl. Bk. Bldg., Dallas 1, Texas (B)
 Hickey & Co., 204 Commerce Bldg., Dallas 2, Texas (B)
 Inge-Hayman Constr. Co., Inc., 2115 Butler St., Dallas, Texas (B)
 Inwood Constr. Co., 5151 Northwest Hwy., Dallas, Texas (B)
 Jones, J. Lawrence, 406 W. Clarendon Dr., Dallas 8, Texas (B)
 McKee, Robt. E., Box 2848, Dallas 1, Texas (B)
 Meers Constr. Co., 312 Great Natl. Life Bldg., Dallas 1, Texas (B)
 Miller & Norton, 4415½ Belmont, P. O. Box 4667, Dallas 6, Texas (B)
 Montgomery, P. O'B., P. O. Box 923, Dallas, Texas (B)

Morgan, J. E., & Sons, P. O. Box 6029, Dallas, Texas (B)
 Munn, Chas. S., 5319 Junius St., P. O. Box 9566, Dallas 14, Texas (B)
 O'Rourke Constr. Co., 1001 W. Commerce, P. O. Box 5384, Dallas 2, Texas (B)
 O'Rourke, J. L., & Son, 5506 Redfield, Dallas, Texas (B)
 Peterson Constr. Co., P. O. Box 474, Dallas, Texas (B)
 Ransdell Constr. Co., 1014 National City Bk. Bldg., Dallas, Texas (B-Hvy)
 Rife, A. J., Constr. Co., 2608 Inwood Rd., Dallas, Texas (B)
 Stewart, James, & Co., Inc., 504 Employers Insurance Bldg., Dallas, Texas (B)
 Sumner, Chas. V., 3408 Rankin St., Dallas 5, Texas (B)
 Vilbig Bros., Inc., P. O. Box 5930, Dallas 2, Texas (B)
 Vivrett & Vivrett, 1211 Southland Life Bldg., Dallas 1, Texas (B)
 Wallace, W. H., Constr. Co., 715 W. Davis St., Dallas 8, Texas (B)

(c) FORT WORTH CHAPTER

President—Thomas McCann, McCann Constr. Co., 1813 E. Lancaster, P. O. Box 2079, Fort Worth 1, Texas
Manager—R. B. Dunbar, 511 Neil P. Anderson Bldg., Fort Worth, Texas
Telephone: Edison-7688

Adams, B. B., 716 1st Natl. Bk. Bldg., Fort Worth 2, Texas (B)
 Butcher & Sweeney, Inc., 806½ Taylor St., Fort Worth 2, Texas (B)
 Byrne, Thos. S., Inc., Continental Life Bldg., Fort Worth, Texas (B)
 Cadenhead, Thos. H., & Sons, 715 Isbell Rd., Fort Worth, Texas (B)
 Cain & Cain, 406 Majestic Bldg., Fort Worth 2, Texas (B)
 Childs Constr. Co., 1708 Jones St., Fort Worth 3, Texas (B)
 Cloer, E. E., 2825 Crockett St., Fort Worth, Texas (B)
 Duncan, Horace O., 1008 E. Mulkey St., Fort Worth, Texas (B)
 Friedman Constr. Co., 1510 W. 10th St., Fort Worth 3, Texas (B)
 Harms, W. C., 1228 W. Shaw St., Fort Worth, Texas (B)
 Lewis & Lewis, P. O. Box 11207, Fort Worth, Texas (B)
 Lytle, W. F., Sr., 3712 Carolyn Rd., Fort Worth, Texas (B)
 McCann Constr. Co., 1813 E. Lancaster, P. O. Box 2079, Fort Worth 1, Texas (B)
 McIntire, F. B., Constr. Co., 5611 E. Lancaster, Fort Worth, Texas (B)
 McQuaid Constr. Co., 2912 Stanley, P. O. Box 11066, Fort Worth, Texas (B)
 Mitchell Constr. Co., 509 Neil P. Anderson Bldg., Fort Worth, Texas (B)
 Murphy, J. R., 2414 Cypress, Fort Worth, Texas (B)
 Padgett, John W., & Sons, 4359 W. Vickery, P. O. Box 9277, Fort Worth, Texas (B)
 Paschall-Sanders Constr. Co., 3602 Linden, Fort Worth 7, Texas (B)
 Potter, John W., 1401 W. Lancaster, Fort Worth, Texas (B)

Quisde Constr. Co., 1st Natl. Bk. Bldg., Fort Worth 2, Texas (B)
 Rambo Constr. Co., 2826 Morton St., Fort Worth, Texas (B)
 Ratcliff & Cornelius Constr. Co., 2506-B Hemphill St., Fort Worth, Texas (B)
 Rhodes, Jon K., Constr. Co., 5410 Camp Bowie Blvd., P. O. Box 9116, Fort Worth, Texas (B)
 Roden Constr. Co., 3617 Collinwood, Fort Worth, Texas (B)
 Seward & Shurtleff, 736 Coates Dr., P. O. Box 10308, Fort Worth, Texas (B)
 Smith, Albert L., 2821 Bledsoe, Fort Worth 7, Texas (B)
 Taylor, Jas. T., & Son, Inc., 117 Roberts Cut-Off Rd., P. O. Box 225, Fort Worth, Texas (B)
 Thomas, J. O., Jr., 3736 Somerset Lane, Fort Worth, Texas (B)
 Tompkins, Chas. H., Co., 557 8th Ave., Fort Worth, Texas (B)

(d) HOUSTON CHAPTER

President—Fred Fisher, Fisher Constr. Co., P. O. Box 6127, Houston 6, Texas

Executive Secretary—Loy W. Duddleston, 2103 Crawford St., Houston 3, Texas
Telephone: Charter 6051

Allen, O. L., Co., 1922 Wentworth Ave., Houston 4, Texas (B)
 American Constr. Co., The, 410 Rusk Bldg., Houston 2, Texas (B)
 Andrews-Parker, Inc., P. O. Box 927, Bryan, Texas (B-Hvy)
 Audish, I. G., 1911 Kolfahl St., Houston 3, Texas (B)
 Ball, R. F., Constr. Co., Inc., Box 13097, Houston 19, Texas (B)
 Bate, Thos., & Sons, 1107 Girard St., Houston 10, Texas (B)
 Baxter Constr. Co., 2718 Cason St., Houston 5, Texas (B)
 Bellows, W. S., Constr. Corp., P. O. Box 2132, 716 N. Everton St., Houston 1, Texas (B-Hvy)
 Bertelsen Constr. Co., 2111 Bissonnet Ave., Houston 5, Texas (B)
 Blaw-Knox Constr. Co., Chemical Plants Div., P. O. Box 778, Pittsburgh 30, Pa. (B-Hvy)
 Bond, E. Lee, Contr., Inc., 607 Oakley St., Houston 6, Texas (B)
 Brown Constr. Co., 5105 Ave. L, Houston 11, Texas (B)
 Burton & Glithero, 4809 Clinton Dr., Houston 20, Texas (B-H-Hvy)
 Campbell & Kay, P. O. Box 836, Tyler, Texas (B-H)
 Cantrell & McMillan, P. O. Box 7601, Houston 7, Texas (B)
 Carpenter Constr. Co., 5330 Mandell St., Houston 5, Texas (Hvy-RR)
 Chambers Constr. Co., 1954 Temple Dr., Houston 19, Texas (B)
 Consolidated Western Steel Corp., Constr. Div., 655 M & M Bldg., Houston 2, Texas (B-Hvy)

TEXAS—Continued

Copeland Constr. Co., 2265 Bellaire Blvd., Houston 5, Texas (B)
 Crossin Constr. Co., 2009 Fannin St., Houston 2, Texas (B)
 Dent, Jas. B., P. O. Box 6275, Houston 6, Texas (B)
 Dow Constr. Co., 3410 Julian St., Houston 9, Texas (B)
 Engbrock Constr. Co., 7634 Thurow St., Houston 17, Texas (B)
 Equipment Rental & Contr. Co., 6731 Harrisburg Blvd., Houston 11, Texas (B)
 Evans, A. N., P. O. Box 546, Columbus, Texas (B)
 Farnsworth & Chambers Co., Inc., P. O. Box 74, Houston 1, Texas (B-H-Hvy-RR)
 Ferguson, H. K., Co., The, 2620 S. Main St., Houston 4, Texas (B)
 Fisher Constr. Co., P. O. Box 6127, Houston 6, Texas (B)
 Flanders Constr. Co., P. O. Box 12188, Houston 17, Texas (B)
 Fretz Constr. Co., 2000 Eastwood St., Houston 3, Texas (B-Hvy)
 Fulton Constr. Co., P. O. Box 13197, Houston 19, Texas (Hvy-RR)
 Gunite Concrete & Constr. Co., 2036 Addison Rd., Houston 5, Texas (Hvy)
 Harbeson, W. B., Inc., 227 N. Lenox St., Houston 11, Texas (B)
 Hays, A. L., & Son, 3703 Texas Ave., Houston 3, Texas (B)
 Hill, W. D., Constr. Co., Box 6023, Houston 6, Texas (B)
 Holtz, B. W., 1318 Sul Ross, Houston 6, Texas (B)
 Howard Constr. Co., Inc., 442 N. Hutcheson St., Houston 3, Texas (B)
 Howe, T. D., Constr. Co., Inc., 3210 White Oak Dr., P. O. Box 7526, Houston 7, Texas (B)
 Hubbard Constr. Co., Inc., 1507 Delano St., Houston 3, Texas (B)
 Hubbell, J. T., Constr. Co., P. O. Box 14128, Houston 21, Texas (B)
 Hurricane Fence & Constr. Co., 135 Harvard St., Houston 7, Texas (B)
 Jones, J. O., Constr. Co., 721 W. Drew Ave., Houston 6, Texas (B)
 Kidde, Walter, Constrs., Inc., 1205 Holman Ave., Houston 4, Texas (B)
 Knutson Constr. Co., 3803 S. Main St., Houston 2, Texas (B)
 LeBlanc, Inc., P. O. Box 351, Houston 1, Texas (B)
 Linbeck Constr. Corp., P. O. Box 13007, Houston 19, Texas (B)
 Lockhart, H. L., 203 Carson Ct., Houston 4, Texas (B)
 Lockhart & Warren, Inc., 1508 Fannin St., Houston 2, Texas (B)
 Manhattan Construction Company of Texas, 2828 Pease Ave., Houston 3, Texas (B)
 Marquette Constr. Co., 7907 Hartford St., Houston 17, Texas (B)
 Marshall Constr. Co., P. O. Box 7538, Houston 7, Texas (B)

Maxey, Carl E., Constr. Co., P. O. Box 108, Lubbock, Texas (B-Hvy)
 Meyerson, Albert, Co., P. O. Box 14005, Foster Pl. Sta., Houston 21, Texas (B)
 Moore & Moore, P. O. Box 306, LaPorte, Texas (B)
 Mora, Gerald, P. O. Box 2623, Houston 1, Texas (Hvy)
 Nesmith, Robt. E., Inc., 6738 Long Dr., Houston 17, Texas (B)
 Nunez Constr. Co., Inc., P. O. Box 1112, Texas City, Texas (Hvy)
 O'Rourke Constr. Co., 4011 Koehler St., P. O. Box 7557, Houston 7, Texas (B)
 Peck, W. D., & Co., Inc., 304 Citizens State Bldg., Houston 2, Texas (B)
 Plank, J. C., 4700 Nett St., Houston 7, Texas (B)
 Roberts, Jas. A., 2014 Rosedale Ave., Houston 4, Texas (B)
 Schneider Constr. Co., P. O. Box 13157, Houston 19, Texas (B)
 Semands, Martin B., Inc., P. O. Box 979, Conroe, Texas (B)
 Smith, Robt. H., & Co., 1915 Kolfahl St., Houston 11, Texas (B)
 Smith, Wm. A., Constr. Co., P. O. Box 1631, Houston 1, Texas (RR)
 Southwestern Constr. Co., P. O. Box 1204, Houston 1, Texas (B-Hvy)
 Tellepsen Constr. Co., 1710 Telephone Rd., P. O. Box 2536, Houston 1, Texas (B-Hvy)
 Temple, Arthur, Jr., & Assoc., Inc., 116 Cotton Sq., P. O. Box 1021, Lufkin, Texas (B)
 Templeton, C. E., 2309 McClendon St., Houston 5, Texas (B)
 Texas-Gulf Constr. Co., Inc., 2008 S. Wayside Dr., P. O. Box 661, Houston 1, Texas (B-Hvy)
 Thrash Constr. Co., Inc., 3416 Broadway Blvd., Houston 17, Texas (B)
 Vachlavick Constr. Co., P. O. Box 386, El Campo, Texas (B)
 Van Buskirk, Harold, & Co., Inc., 3105 Dixie Dr., P. O. Box 14003, Houston 21, Texas (B)
 Van Cleave Constr. Co., P. O. Box 12176, 5616 Telephone Rd., Houston 17, Texas (B)
 Weber, Herman, Inc., 800 N. Pearl St., Beaumont, Texas (B)
 Williams, Claude K., & Co., Inc., 1917 Westheimer Rd., Houston 6, Texas (B)
 Williams Constr. Co., P. O. Box 9162, Houston 11, Texas (B)
 Williams, Edw., 2318 Sul Ross Ave., Houston 6, Texas (B)
 Windham & Sons, Inc., P. O. Box 789, Livingston, Texas (B)
 Wohlfeld, Nathan, 6702 Cedar Springs Ave., P. O. Box 7084, Love Field Br., Dallas 9, Texas (B)
 Wood, Louis A., 602 E. 24th St., Houston 8, Texas (B)
 Woodruff, W. E., Co., 3201 Liberty Rd., Houston 10, Texas (B)
 Zachry, H. B., Co., P. O. Box 2570, San Antonio 6, Texas (B-H-Hvy-RR)
 Zempter, J. W., Contr. Co., Inc., P. O. Box 57, 6502 Broadway, Galveston, Texas (B)

(e) SAN ANTONIO CHAPTER

President—John C. Worcester, 1203 Transit Tower, San Antonio, Texas
Secretary—Paul W. Adams, 229 Transit Tower, P. O. Box 2448, San Antonio 6, Texas
Telephone: Garfield 9221

Baugh & Scott, 605 Culebra Ave., San Antonio, Texas (B)
 Browning, C. L., Jr., P. O. Box 5067, Beacon Hill Sta., San Antonio, Texas (B)
 Chamberlain & Strain, 607 National Bk. of Commerce Bldg., San Antonio 5, Texas (B)
 Christy & Baskett, American Hospital & Life Bldg., San Antonio 5, Texas (B)
 Forgy Constr. Co., P. O. Box 6521, Alamo Hts. Br., San Antonio, Texas (B)
 Hill & Combs, 321 Melrose Pl., San Antonio 1, Texas (B-Hvy)
 Lynn & Morsey, 407 Ira Ave., P. O. Box 2546, San Antonio 6, Texas (B)
 Martin, J. B., P. O. Box 37, Grayson St. Sta., San Antonio 8, Texas (B)
 McKenzie Constr. Co., P. O. Box 806, San Antonio 6, Texas (B-H-Hvy)
 Mitchell, C. W., 811 American Hospital & Life Bldg., San Antonio 5, Texas (B)
 Phelps, Judson H., Rt. 2, Box 208-L, San Antonio, Texas (B)
 Prassel, Victor, P. O. Box 521, San Antonio 6, Texas (B-Hvy)
 Rheiner, A. E., & Co., 2304 Transit Tower, San Antonio, Texas (B)
 Rheiner, D. J., Constr. Co., 409 Insurance Bldg., San Antonio, Texas (B)
 Scott, F. L., & Son, 2402 W. Kings Hwy., San Antonio 1, Texas (B)
 von Rosenberg, H. J., 330 Melrose Pl., San Antonio 5, Texas (B)
 Walsh & Burney Co., 928 N. Flores St., San Antonio 1, Texas (B-H-Hvy)
 Worcester, John C., 1203 Transit Tower, San Antonio, Texas (B)

(f) TEXAS HIGHWAY BRANCH

President—W. H. Courson, Texas Bitulithic Co., P. O. Box 5297, Dallas 2, Texas
Vice President—Wayne D. Tiner, H. B. Zachry Co., P. O. Box 2570, San Antonio, Texas
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Adams, Geo. B., 808 Ennis Ave., Bryan, Texas (H)
 Adams, R. N., P. O. Box 376, Kaufman, Texas (H)
 Allhands & Briley, Southwestern Life Bldg., Dallas 1, Texas (H)
 Allhands & Swatzell, Inc., 1005 Southwestern Life Bldg., Dallas 1, Texas (H)
 Anglin, Ross, P. O. Box 4038, Austin, Texas (H)
 Armstrong & Armstrong, Box 873, Roswell, N. Mex. (H)
 Austin Bridge Co., P. O. Box 1590, Dallas, Texas (H)

(Symbols following names indicate type of construction performed by company; B—Building; H—Highway; Hvy—Heavy; RR—Railroad.)

A.G.C. DIRECTORY

TEXAS—Continued

- Austin Road Co., The, Box 1590, Dallas 8, Texas (H)
- Bell, Braden, Barker & Gilvin, Herring Hotel, Amarillo, Texas (H)
- Briggs, R. W., & Co., P. O. Box 1981, San Antonio, Texas (B-H-Hvy)
- Brittain & Gibbins, Box 7069, Fort Worth, Texas (H)
- Brown, Marvin, Inc., 4300 Dixie Dr., P. O. Box 6117, Houston, Texas (H)
- Brown & Root, Inc., P. O. Box 1139, Austin, & P. O. Box 3, Houston 1, Texas (H-Hvy)
- Buckner, John F., & Sons, P. O. Box 76, Cleburne, Texas (H)
- Buckner, R. C., P. O. Box 609, Jacksonville, Texas (H)
- Bucy, A. L., 804 Ave. I, Brownwood, Texas (H)
- Butler, H. L., & Son, P. O. Box 7112, Dallas 9, Texas (H)
- Butler, R. B., Inc., Box 471, Bryan, Texas (H)
- Cage Bros., 607 Travis Bldg., San Antonio, Texas (H)
- Cagle, Harry E., P. O. Box 6117, Houston 6, Texas (H-Hvy)
- Campbell, Harry, 2854 Berry St., Fort Worth 4, Texas (H)
- Campbell & Kay, P. O. Box 836, Tyler, Texas (B-H-Hvy-RR)
- Canion, J. R., Constr. Co., 608 W. Monroe, P. O. Box 756, Austin, Texas (H-Hvy)
- Clardy, J. B., Constr. Co., Box 7024, Sylvania Sta., Fort Worth, Texas (H)
- Clinton & Corbin, 2824 Colonial Ave., Waco, Texas (H)
- Cloud, Dudley R., & Son, 1903 Transit Tower, San Antonio 5, Texas (H-Hvy)
- Cohen, Chas., 206 Dunn Bldg., Marshall, Texas (H-Hvy)
- Colglazier & Hoff, Inc., 526 Seguin Rd., San Antonio 8, Texas (H)
- Collins Constr. Co., P. O. Box 1192, Austin 6, Texas (H-Hvy)
- Cooper & Woodruff, Dallas Natl. Bk. Bldg., Dallas, Texas (H)
- Crawford, W. S., Co., 5350 Montrose Dr., Dallas 9, Texas (H)
- D & H Constr. Co., Box 7053, Dallas 9, Texas (H)
- Dailey & Holfield, 309 Frost Natl. Bk. Bldg., San Antonio 5, Texas (H)
- Darby, E. B., Co., Box 467, Pharr, Texas (H)
- Davidson, Joe, 1113 E. Moore St., P. O. Box 439, Terrell, Texas (H)
- Dellinger, J. M., Inc., 2425 Leopard St., P. O. Box 4227, Corpus Christi, Texas (H)
- Dement, Ivan, Box 1787, Amarillo, Texas (H)
- Dew Constr. Co., Inc., Box 641, Tyler, Texas (H)
- Dodds & Wedegartner, Inc., Box 1950, San Benito, Texas (H)
- Farnsworth & Chambers Co., Inc., P. O. Box 74, Houston 1, Texas (B-H-Hvy)
- Farquhar, Neelley B., P. O. Box 188, College Station, Texas (H)
- Farr, R. T., Rogers, Texas (H)
- Freeland, Jack, & Co., 6637 W. Commerce, San Antonio 7, Texas (H)
- Gaylor Constr. Co., P. O. Box 6157, Houston 6, Texas (H-Hvy)
- General Constr. Co., P. O. Box 1524, Fort Worth 1, Texas (H)
- Gifford-Hill & Co., Inc., 412 Texas Bk. Bldg., Dallas 2, Texas (H-RR)
- Gulf Bitulithic Co., P. O. Box 2572, Houston 1, Texas (H-Hvy)
- Hable, E. W., & Sons, P. O. Box 628, Corsicana, Texas (H)
- Hall, Wesley, Rt. 1, Box 260, Brownwood, Texas (H)
- Hanson, Olene, 4906 Griggs Rd., Houston 4, Texas (H)
- Harrison Engr. & Constr. Corp., 4638 Mill Creek Pkwy., Kansas City 2, Mo. (H-Hvy)
- Heidelberg, C. R., 320 Jackson St., Jacksonville, Texas (H)
- Heldenfels Bros., P. O. Box 1917, Corpus Christi, Texas (H)
- Henderson, H. R., Co., Drawer 313, Marshall, Texas (H)
- Henning-Payne Constr. Co., 897 Ross Ave., Abilene, Texas (H)
- Hill, E. B., 1600 S. Branch St., P. O. Box 606, Sherman, Texas (H-Hvy-RR)
- Hoffman, Ned B., Fort Worth Club Bldg., Fort Worth 2, Texas (H)
- Howard Bros., Madisonville, Texas (H)
- Jarbet Co., The, Rt. 11, Box 172, San Antonio, Texas (H)
- Kelly Constr. Co., 2215 Belknap, San Antonio 1, Texas (H-Hvy)
- Kies, Geo., Driskill Hotel, Austin, Texas (H)
- Killian, M. B., & Co., P. O. Box 1981, San Antonio, Texas (H)
- Lacy, L. H., Co., 5630 Yale Blvd., Dallas 5, Texas (B-H)
- Larson, Norman L., 2410 Jarratt, Austin, Texas (H)
- Leslie, John T., Chapman Bldg., Waxahachie, Texas (H)
- Loyd, Ernest, P. O. Box 1120, Fort Worth 1, Texas (H)
- M-J Constr. Co., Inc., 301 S. Washington St., P. O. Box 1111, Beeville, Texas (H)
- McCall Engr. Co., P. O. Box 2213, Houston, Texas (B-Hvy)
- McKenzie Constr. Co., P. O. Box 806, San Antonio 6, Texas (B-H-RR)
- McKinney, R. W., Nacogdoches, Texas (H)
- McKown & Sons, Box 785, Austin, Texas (H)
- McMillan, Hugh, P. O. Box 1227, El Paso, Texas (H)
- McMillin-Burkett Constr. Co., P. O. Box 450, Texarkana, Texas (H)
- McMullin-Larson & Co., 1961 N. Industrial Blvd., Dallas, Texas (H)
- Miles, L. J., Constr. Co., Box 3217, Poly. Sta., Fort Worth 2, Texas (H)
- Mitchell, Russ, Inc., 5304 Old Spanish Trail, Box 8056, Houston 3, Texas (H)
- Moore, Bart, Co., P. O. Box 6557, Alamo Hts. Br., San Antonio 9, Texas (H)
- Moore Bros. Constr. Co., P. O. Box 35, Lufkin, Texas (H-Hvy)
- Newton, Harry, Inc., Graham Land Office Bldg., Graham, Texas (H)
- Oldt, F. S., Co., 403 S. Haskell, Dallas 1, Texas (H-Hvy)
- Pace-Spence Co., 3503 East Ave., Austin, Texas (H-Hvy)
- Page, Holland, Box 1181, Austin, Texas (H)
- Panhandle Constr. Co., P. O. Box 1500, Lubbock, Texas (H-Hvy)
- Pelphrey, L. W., Co., P. O. Box 1166, Glade-water, Texas (H)
- Pelphrey, W. O., 1714 Electric Bldg., Fort Worth 2, Texas (H)
- Perry, J. W., 501 Insurance Bldg., San Antonio 5, Texas (H)
- Public Constr. Co., Box 380, Denton, Texas (H)
- Reeves, F. M., & Sons, P. O. Box 972, Austin 5, Texas (H)
- Ruby, M. E., San Marcos, Texas (H)
- Schwope Bros., 6633 W. Commerce St., San Antonio, Texas (H-Hvy)
- Sira, Ben, & Co., 6419 Maple Ave., Dallas, Texas (H)
- Skinner, Dean, Box 4057, No., Austin, Texas (H)
- Smith, R. B., 3702 Glenn Haven, Houston, Texas (H)
- South Texas Constr. Co., P. O. Box 3536, Corpus Christi, Texas (H)
- Southern Contr. Co., Box 460, Austin, Texas (H)
- Southwest Gen. Constr. Co., 426 Reserve Loan Life Bldg., Dallas, Texas (H)
- Spencer Constr. Co., P. O. Box 487, Carrollton, Texas (H-Hvy-RR)
- Standard Paving Co., Majestic Bldg., Fort Worth 2, Texas (H)
- Strain & Brown, Inc., Box 1057, San Angelo, Texas (H)
- Strain, C. Hunter, P. O. Box 1057, San Angelo, Texas (H)
- Texas Bitulithic Co., P. O. Box 5297, Dallas 2, Texas (H)
- Thomas & Ratliff, Rogers, Texas (H)
- Trotti & Thomson, 2940 Crockett St., P. O. Box 70, Beaumont, Texas (H)
- Turner, Luther A., & Son, Box 1125, Austin, Texas (H)
- Uvalde Constr. Co., P. O. Box 3027, Dallas, Texas (H-Hvy)
- Vardeman, T. R., & Son, 727½ E. Main, Box 485, Nacogdoches, Texas (H)
- Vowell Constr. Co., P. O. Box 253, El Paso, Texas (H)
- Wallace & Bowden, 5513½ E. Grand Ave., Dallas 10, Texas (H)
- Wendel Constr. Co., P. O. Box 231, El Campo, Texas (H)
- Western Contracting Corporation, 400 Benson Bldg., Sioux City 15, Iowa (H)
- Word, Dean, & Co., Box 330, New Braunfels, Texas (H)
- Worrell, M. E., Box 278, Junction, Texas (H)
- Worrell & Watkins, Box 373, Longview, Texas (H)
- Worth Constr. Co., P. O. Box 531, Fort Worth, Texas (H)
- Zachry, H. B., Co., P. O. Box 2570, San Antonio, & P. O. Box 850, Laredo, Texas (B-H-Hvy-RR)

TEXAS—Continued

(g) ASSOCIATED GENERAL CONTRACTORS OF AMARILLO

President—Claude E. Mathis, 301 N. Tyler St., P. O. Box 1727, Amarillo, Texas
Secretary-Treasurer—Albert B. Randall, Randall Bldg. Co., 528 Amarillo Bldg., Amarillo, Texas
 Goforth, Earl, 1026 Sunset St., Amarillo, Texas (B)
 Hill, F. D., Constr. Co., 1013 W. 14th, P. O. Box 207, Amarillo, Texas (B)
 Jesse, Frank, 2416 Hughes St., Amarillo, Texas (B)
 Lambie, C. S., & Co., 431 Amarillo Bldg., P. O. Box 1167, Amarillo, Texas (B)
 Mathis, Claude E., 301 N. Tyler St., P. O. Box 1727, Amarillo, Texas (B)
 Ramey Constr. Co., Inc., Paramount Bldg., P. O. Box 6, Amarillo, Texas (B)
 Randall Bldg. Co., 528 Amarillo Bldg., Amarillo, Texas (B)
 Richards, Floyd, 505 Jackson St., Amarillo, Texas (B)
 Singleton, Musick & Co., 514 N. Fillmore St., P. O. Box 2130, Amarillo, Texas (B)
 Timmons Constr. Co., 1707½ W. 7th Ave., P. O. Box 3128, Amarillo, Texas (B)
 Wedding & Cochran, 315 Lipscomb St., P. O. Box 1592, Amarillo, Texas (B)
 Wirtz, Walter E., 504 Jefferson St., P. O. Box 2442, Amarillo, Texas (B)

(h) ASSOCIATED GENERAL CONTRACTORS OF JEFFERSON COUNTY

President—G. Sargl, Box 1007, Beaumont, Texas
Secretary—A. E. Wenham, 2276 Park St., Beaumont, Texas
Telephone: 2-8311
 Andrus, M. R., 1433 Emile, Beaumont, Texas (B)
 Beaumont Constr. Co., P. O. Box 2814, Beaumont, Texas (H-Hvy)
 Collins, O. W., 2048 Procter St., Port Arthur, Texas (B-Hvy)
 Farnsworth, R. P., & Co., P. O. Box 1029, Beaumont, Texas (B)
 Foster Bros., 1948 Stadium Rd., Port Arthur, Texas (B)
 Giblin, L. J., P. O. Box 143, Groves, Texas (B)
 Hays, A. L., & Son, P. O. Box 301, Port Arthur, Texas (B)
 Jones, I. L., 3290 E. Lucas Dr., Beaumont, Texas (B)
 King, Winter, & Son, 2293 Park St., Beaumont, Texas (B)
 Ratcliff Bros. Constr. Co., 312 Main St., Liberty, Texas (B)
 Sargl, G., Box 1007, Beaumont, Texas (B)
 Schneider Constr. Co., P. O. Box 13157, Houston 19, Texas (B)

Tellepsen Constr. Co., 1710 Telephone Rd., Houston 1, Texas (B-Hvy)
 Weber, Herman, Inc., 800 N. Pearl St., Beaumont, Texas (B)

(i) SOUTH TEXAS CHAPTER

President—E. P. Edgeworth, Jr., Edgeworth Constr. Co., 433 Villa Dr., Corpus Christi, Texas
Managing Director—Curtis Bell, 902 Kinney St., Corpus Christi, Texas
Telephone: 23393
 Adams, John, 1512 Mesquite St., Corpus Christi, Texas (B)
 Aikin, Lee, P. O. Box 2350, Corpus Christi, Texas (B-Hvy)
 Arthur Bros., 913 S. 6th St., P. O. Box 1089, Kingsville, Texas (B)
 Ball, R. F., Constr. Co., Box 13097, Houston 19, Texas (B-Hvy)
 Beck, O. J., & Sons, 340 Westchester Dr., Corpus Christi, Texas (B)
 Bermingham, J. W., Constr. Co., Inc., 1809½ Morgan St., Corpus Christi, Texas (B)
 Bigler & Bigler, 1545 Clodah, Corpus Christi, Texas (B)
 Braselton Constr. Co., Box 4027, Corpus Christi, Texas (B)
 Burnett Constr. Co., Box 336, Corpus Christi, Texas (B)
 Davis Constr. Co., 3132 Morgan Ave., Corpus Christi, Texas (B)
 Edgeworth Constr. Co., 433 Villa Dr., Corpus Christi, Texas (B-H)
 Eisenhauer, E., 1124 N. Tancagua St., Corpus Christi, Texas (B)
 Goldston Co., The, 918 E. Port, P. O. Box 672, Corpus Christi, Texas (Hvy)
 Harrison, E. E., P. O. Box 477, Corpus Christi, Texas (B)
 Henger Constr. Co., 1600 Dallas Natl. Bk. Bldg., Dallas 1, Texas (B)
 Hinchberger Constr. Co., P. O. Box 134, Corpus Christi, Texas (B)
 Hinman, A. E., 957 Navigation Blvd., Box 1672, Corpus Christi, Texas (B-Hvy)
 Lawless & Alford, Box 1248, Corpus Christi, Texas (B)
 Leslie, C. E., P. O. Box 1269, Kingsville, Texas (B-Hvy)
 Linbeck Constr. Corp., P. O. Box 13007, Houston 19, Texas (B)
 Meigs, Hilton, 906 Alcoa St., Victoria, Texas (B)
 Phillips, John W., 324 Parr St., P. O. Box 3253, Corpus Christi, Texas (B)
 Porter, E. D., P. O. Box 661, Midland, Texas (B)
 Ricks, J. E., Constr. Co., P. O. Box 4141, 6215 Georgetown Rd., Austin 51, Texas (B)
 Sanneman Bros. Constr. Co., 934 Kansas Ave., Topeka, Kans. (B)
 Slovak Bros., Whalen Dr., Box 5096, Corpus Christi, Texas (B-H)
 Walsh, J. A., 313 Bartlett Dr., Corpus Christi, Texas (B)
 Watson, M. W., c/o E. B. Jackson, Repr., P. O. Box 1263, Corpus Christi, Texas (B-H-Hvy-RR)
 Weaver Constr. Co., 628 Atlantic, Corpus Christi, Texas (B)

Wolter, W. H., 109 N. Carrizzo St., Corpus Christi, Texas (B)
 Woodruff, H. E., Box 1146, Corpus Christi, Texas (B)
 Zachry, H. B., Co., P. O. Box 2570, San Antonio, Texas (B-H-Hvy-RR)

(j) MUNICIPAL CONTRACTORS ASSOCIATION (TEXAS)

President—F. S. Oldt, F. S. Oldt Co., 403 S. Haskell Ave., Dallas 1, Texas
Managing Director—R. M. Dixon, 212 Thomas Bldg., Dallas 2, Texas
Telephone: PR-1206
 Allison, H. F., Co., 7110 Junius, Dallas 14, Texas (Hvy)
 Asplund Constr. Co., Box 1665, Enid, Okla. (Hvy)
 B & M Constr. Corp., 316-319 Petroleum Bldg., Oklahoma City, Okla. (Hvy)
 Baker, Earl W., Co., Box 200 Warr Acres, Oklahoma City, Okla. (Hvy)
 Bartholomew, J. G., 513 Gulf States Bldg., Dallas 1, Texas (Hvy)
 Bate, Thos., & Sons, 1107 Girard St., Houston 10, Texas (B-Hvy)
 Bland, Joe, Constr. Co., 4704 E. 1st St., P. O. Box 1158, Austin, Texas (Hvy)
 Broughton, O. J., 2928 Amherst, Dallas, Texas (Hvy)
 Brown, Marvin, Inc., 4300 Dixie Dr., P. O. Box 6117, Houston, Texas (H-Hvy)
 Brown & Root, Inc., P. O. Box 3, Houston 1, Texas (Hvy)
 Carey & Newton Co., Box 832, Brownwood, Texas (Hvy)
 Century Constr. Co., P. O. Box 5175, Houston, Texas (Hvy)
 Cullum, W. G., & Co., 502 Great Natl. Life Bldg., Dallas, Texas (Hvy)
 Dalton, E. L., & Co., Ltd., 3003 Hawes St., P. O. Box 7125, Dallas, Texas (Hvy)
 Darby, Mitchell, Constr. Co., 32-A M. & J. Nelson Bldg., McAllen, Texas (Hvy)
 Diamond Engr. Co., 8100 2d Ave., Dallas, Texas (Hvy)
 Dickerson, G. W., 1543 W. Kingshighway, San Antonio, Texas (Hvy)
 Doerfler Constr. Co., 2514 S. Agnew, Oklahoma City, Okla. (Hvy)
 Enix Constr. Co., 1111 W. 20th Ave., Amarillo, Texas (Hvy)
 Everett, Claude, Inc., P. O. Box 500, Houston, Texas (Hvy)
 Farrow, E. E., Co., Box 7145, Dallas 9, Texas (Hvy)
 Ferguson, Hubert, 6543 Forest Park Rd., P. O. Box 7271, Dallas, Texas (Hvy)
 Gardner, Elmer C., Inc., P. O. Box 6181, Houston, Texas (Hvy)
 George Constr. Co., P. O. Box 2573, Houston, Texas (Hvy)
 George, J. D., Co., 707 Amicable Bldg., Waco, Texas (Hvy)
 Glade Constr. Co., 408 Century Bldg., Fort Worth, Texas (Hvy)
 Happel, H. J., Constr. Co., 5501 E. Admiral Blvd., Tulsa, Okla. (Hvy)
 Harrison, C. H., P. O. Box 185, Waco, Texas (Hvy)

(Symbols following names indicate type of construction performed by company; B—Building; H—Highway; Hvy—Heavy; RR—Railroad.)

TEXAS—Continued

Heffernan, J. Jr., 2312 Southmore, Houston, Texas (Hvy)
 Heldenfels Bros., P. O. Box 1917, Corpus Christi, Texas (Hvy)
 Hodgson, R. B., & Co., 1005½ 13th St., Rm. 260, Lubbock, Texas (B)
 Holland, John G., Constr. Co., 1602 Old Spanish Trail, Houston, Texas (Hvy)
 Koehler, A. S., P. O. Box 6235, Houston, Texas (Hvy)
 Koller Constr. Co., 612 Tradesmen's Natl. Bk. Bldg., Oklahoma City, Okla. (Hvy)
 Layne-Texas Co., Ltd., The, 6419 Maple, Dallas, & P. O. Box 9098, Houston 11, Texas (Hvy)
 Lee, T. H., 401 N. Taneahua, Rm. 128, Corpus Christi, Texas (Hvy)
 Martyn Bros., Inc., 1000 St. Louis St., Dallas 1, Texas (Hvy)
 McDonald, Henry C., Co., P. O. Box 1032, Kilgore, Texas (Hvy)
 McIllyar, W. K., Constr. Co., 8505 Douglas, Dallas, Texas (Hvy)
 McKenzie Constr. Co., P. O. Box 806, San Antonio 6, Texas (Hvy)
 Midwest Constr. Co., 415 S. Haskell Ave., Dallas, Texas (Hvy)
 Mitchell, Roy M., 2120 W. Erwin St., Tyler, Texas (Hvy)
 Mitchell, Russ, Inc., 5304 Old Spanish Trail, Box 8056, Houston 3, Texas (Hvy)
 Mora, Gerald, P. O. Box 2623, Houston, Texas (Hvy)
 Nunn, Paul H., 5100 Belle Isle, Oklahoma City, Okla. (Hvy)
 Oldt, F. S., Co., 403 S. Haskell, Dallas, Texas (Hvy)
 Oliver, J. C., P. O. Box 113, Tyler, Texas (Hvy)
 Osage Constr. Co., 1413 S. Blackwelder Ave., Oklahoma City, Okla. (Hvy)
 Paddock Engr. Co. of Texas, 3727 Atwell, Dallas, Texas (Hvy)
 Panhandle Constr. Co., P. O. Box 1500, Lubbock, Texas (Hvy)
 Pelphrey & Basham, Inc., Electric Bldg., Fort Worth, Texas (Hvy)
 Pennington & Winter Constr. Co., 2911 Apco Tower, Oklahoma City, Okla. (Hvy)
 Rea, Wayne L., P. O. Box 1192, Corpus Christi, Texas (Hvy)
 Red River Constr. Co., 2212 Hollywood Ave., Shreveport, La. (B)
 Richardson Constr. Co., 3236 Townsend Dr., Fort Worth, Texas (Hvy)
 Sherman Machine & Iron Works, 26 E. Main St., Oklahoma City, Okla. (Hvy)
 Sira, Ben, & Co., 6419 Maple Ave., Dallas, Texas (Hvy)
 Small, C. E., 617 1st National Bk. Bldg., Dallas, Texas (Hvy)
 Smith, Roger, P. O. Box 182, Waco, Texas (Hvy)
 Sorenson, P. C., & Co., Inc., P. O. Box 4093, Dallas, Texas (Hvy)
 Southwest Paving Co., P. O. Box 8065, Houston 4, Texas (Hvy)
 Southwestern Norcam, 6617 Snider Plaza, Dallas 5, Texas (Hvy)
 Stimson Corp., P. O. Box 5302, Dallas, Texas (Hvy)

Stovall Constr. Co., P. O. Box 7143, Dallas, Texas (Hvy)
 Stowell, F. M., 5208 E. 15th St., Tulsa, Okla. (Hvy)
 Swatek Constr. Co., Hightower Bldg., Oklahoma City, Okla. (Hvy)
 Swilling & Boyd, P. O. Box 569, Pineville, La. (Hvy)
 Trueheart, J. C., Constr. Co., 812 Insurance Bldg., San Antonio, Texas (Hvy)
 Wagner, Karl B., Box 4116, Austin, Texas (Hvy)
 Walsh Constr. Co., Electra, Texas (Hvy)
 Whittle, R. D., Constr. Co., P. O. Box 5602, Dallas, Texas (Hvy)
 Williams, Cole, Inc., 7903 Manderville Lane, Dallas 6, Texas (Hvy)
 Williams, J. L., Constr. Co., Inc., 5609 Bellaire Blvd., P. O. Box 164, Bellaire, Texas (Hvy)

(k) AUSTIN CHAPTER

President—Leslie F. Crockett, Leslie F. Crockett Constr. Co., 112 Academy Dr., Austin 4, Texas
Executive Secretary—Miss Fannie Davis, P. O. Box 464, 609 S. Lamar, Austin 63, Texas
Telephone: 7-9459

Ainsworth, A. G., Constr. Co., 1010 W. 3d St., P. O. Box 924, Austin 65, Texas (B)
 Anderson, W. D., Co., 3100 Beverly Rd., Austin 3, Texas (B)
 Broad, John, Constr. Co., P. O. Box 494, 1711 W. 5th, Austin 63, Texas (B)
 Chandler Constr. Co., Box 84, 603 E. 29th St., Cameron, Texas (B)
 Crockett, Leslie F., Constr. Co., 112 Academy Dr., Austin 4, Texas (B)
 Cummings, L. M., 6001 Shoalwood Ave., Austin 5, Texas (B)
 Eitz-Kitchens Constr. Co., P. O. Box 3116, 1512½ S. Congress, Austin 13, Texas (B)
 Evans, J. C., 4415 Shoalwood Ave., Austin 5, Texas (B)
 Fulcher-Burgher Constr. Co., P. O. Box 924, 1010 W. 3d St., Austin 65, Texas (B)
 Kitchens, Rex D., Constr. Co., P. O. Box 3006, 608 W. Monroe, Austin 13, Texas (B-H)
 Lawless & Alford, Inc., P. O. Box 600, 5117 E. 1st St., Austin 63, Texas (B)
 Moore Constr. Co., P. O. Box 300, 125 Riverside Dr., Austin 62, Texas (B)
 Morris, Robt., Constr. Co., P. O. Box 1121, Green Acres Addition, Austin 66, Texas (B)
 Odom, J. M., P. O. Box 774, 914 Congress Ave., Austin 64, Texas (B-H)
 Reich, Hugh D., P. O. Box 373, 2301 Canterbury, Austin 62, Texas (B)
 Ricks, J. E., Constr. Co., P. O. Box 4141, 6215 Georgetown Rd., Austin 51, Texas (B)
 Rundell, Frank R., P. O. Box 455, 309 Lamar Blvd., Austin 63, Texas (B)
 Snead, E. B., Constr. Co., P. O. Box 777, Aero-Tel Airport, Austin 64, Texas (B)
 Starling Constr. Co., P. O. Box 109, 903 Edgcliff Terr., Austin 62, Texas (B)
 Webb, T. A., 2205 Swisher, Austin 5, Texas (B)

Weise Bros., 2600 Red River St., Austin 5, Texas (B)
 Woehl, A. J., P. O. Box 4, Bastrop, Texas (B)

(l) WACO CHAPTER

President—Wm. H. Smith, Smith Bldg. Co., Inc., 2512 Franklin Ave., P. O. Box 796, Waco, Texas
Manager—Brooks W. Pearson, 1802½ Franklin Ave., P. O. Box 1968, Waco, Texas
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Adams, Wm. G., & Co., 3411 Franklin Ave., P. O. Box 795, Waco, Texas (B)
 Chapman, Oscar T., Inc., P. O. Box 37, Hutchins, Texas (B)
 Hendrick, C. L., & Sons, 2111 N. 21st St., Waco, Texas (B)
 Hendrick, David R., & Co., 1118½ Franklin Ave., P. O. Box 956, Waco, Texas (B)
 Hicks Constr. Co., 2911 N. 18th St., P. O. Box 2143, Waco, Texas (B)
 Hooker Constr. Co., 1315 N. 4th St., P. O. Box 2025, Waco, Texas (B)
 Johnson, Ed, Marlin Hwy., P. O. Box 424, Waco, Texas (B)
 Jones & Williams Constr. Co., 2200 Baylor Ave., P. O. Box 2097, Waco, Texas (B)
 Smith Bldg. Co., Inc., 2512 Franklin Ave., P. O. Box 796, Waco, Texas (B)
 Sparks, W. P., Jr., 3318 Mitchell Rd., Waco, Texas (B)

(m) PIPE LINE CONTRACTORS' ASSOCIATION (TEXAS)

President—Laurence H. Favrot, Houston Contr. Co., 2707 Ferndale Pl., Houston 6, Texas
Executive Secretary—Richard A. Gump, 1023 Mercantile Bk. Bldg., Dallas, Texas
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Anderson Bros. Corp., 707 N. Drennan St., P. O. Box 2591, Houston, Texas (Hvy)
 Associated Pipe Line Contrs., Inc., 11-12 Lamar-River Oaks Shopping Center, 3272 Westheimer, Houston 1, Texas (Hvy)
 Bechtel Corp., 220 Bush St., San Francisco 4, Calif. (Hvy)
 Bishop & Lock Constr. Co., 1018 Magnolia Bldg., Dallas 2, Texas (Hvy)
 Britton Contr. Co., Inc., 93 S. Main St., Washington, Pa. (Hvy)
 Brodie Constr. Co., P. O. Box 2064, Amarillo, Texas (Hvy)
 Burden, O. R., Constr. Corp., P. O. Box 5216, Tulsa, Okla. (Hvy)
 Conyes Constr. Corp., 2884 San Pablo Ave., San Pablo, Calif. (Hvy)
 Eastern Constr. Co., Inc., 1801 Mercantile Bk. Bldg., Dallas 1, Texas (Hvy)
 Engineers Ltd. Pipeline Co., 225 Bush St., San Francisco 4, Calif. (Hvy)
 Farley, L. E., Inc., 516 Chronicle Bldg., Houston 2, Texas (Hvy)
 Foreman, C. S., Co., 1900 Armour Rd., North Kansas City, Mo. (Hvy)
 Fulton, R. H., & Co., P. O. Box 1526, Lubbock, Texas (Hvy)

TEXAS—Continued

Griffis, G. G., Inc., P. O. Box 418, Tulsa, Okla. (Hvy)
 Houston Constr. Co., 2707 Ferndale Pl., Houston 6, Texas (Hvy)
 Jayhawk Constr. Co., Inc., The, Box 68, Great Bend, Kans. (Hvy)
 Knupp Constr. Co., Inc., P. O. Box 152, Great Bend, Kans. (Hvy)
 Little, I. C., 225 Southland Hotel Bldg., Dallas, Texas (Hvy)
 Mahoney, E. J., Contr. Co., 2300 N. Grand River, Lansing, Mich. (Hvy)
 McVean & Barlow, P. O. Box 151, Odessa, Texas (Hvy)
 Mid-States Constr. Co., Inc., P. O. Box 417, Mt. Vernon, Ill. (Hvy)
 Midwestern Constrs., Inc., 105 N. Boulder, Tulsa 3, Okla. (Hvy)
 Midwestern Constrs., Inc., 130 W. Liberty Dr., Box 587, Wheaton, Ill. (Hvy)
 Oklahoma Contr. Co., 1210 Mercantile Bldg., Dallas 1, Texas (Hvy)
 Pipe Line Constr. & Drilling Co., P. O. Box 165, Camp Hill, Pa. (Hvy)
 Potashnick, R. B., P. O. Box 205, Cape Girardeau, Mo. (Hvy)
 Price, H. C., Co., Union Natl. Bk. Bldg., Bartlesville, Okla. (Hvy)
 Rumsey Bros. Pipe Line Constr. Co., 3215 N. Broadway, Wichita, Kans. (Hvy)
 Saigh, N. A., Co., Inc., 531 Majestic Bldg., San Antonio 5, Texas (Hvy)
 Sheehan Pipe Line Constr. Co., 529 National Bk. of Tulsa Bldg., Tulsa 3, Okla. (Hvy)
 Smith Contr. Corp., 205 N. W. 7th St., Fort Worth, Texas (Hvy)
 Smith, Ray L., & Son, Inc., Box 391, El Dorado, Kans. (Hvy)
 Somerville Constr. Co., Ada, Mich. (Hvy)
 Texas-Louisiana Constrs., 804 Dan Waggoner Bldg., Fort Worth 2, Texas (Hvy)
 Trojan Constr. Co., Inc., 1416½ N. Robinson, Oklahoma City 3, Okla. (Hvy)
 Vaughn & Taylor Constr. Co., Inc., 828 Hamilton Bldg., Box 1351, Wichita Falls, Texas (Hvy)
 Western Pipe Line Constrs., P. O. Box 798, Austin, Texas (Hvy)
 Williams-Austin Co., 707 Grant Bldg., Pittsburgh 19, Pa. (Hvy)
 Williams Bros. Co., 324 National Bk. of Tulsa Bldg., Tulsa 3, Okla. (Hvy)
 Williams Bros.-Davis Co., 6006 Jensen Dr., P. O. Box 11037, Houston 16, Texas (Hvy)
 Young, L. R., Constr. Co., 1058 W. Main St., Olney, Ill. (Hvy)

(n) EAST TEXAS CHAPTER

President—J. Sam Owens, J. Sam Owens Constr. Co., P. O. Box 1151, Longview, Texas
Secretary—Raymond Cupp, P. O. Box 808, Longview, Texas
Telephone: 4940

Bergstrom, H. R., & Robt. B. Yates, P. O. Box 633, Marshall, Texas (B)
 Brown, M. Clint, Co., P. O. Box 808, Longview, Texas (B)

Byers, J. B., 2208 Florence St., Box 1215, Kilgore, Texas (B)
 Choate, Milo J., & Co., 1412 W. 5th St., Tyler, Texas (B)
 Hale, Rogers, Constr. Co., Henderson, Texas (B)
 Kerr Engr. & Constr. Co., Laird Hill Rd., Box 1342, Kilgore, Texas (B)
 Owens, J. Sam, Constr. Co., P. O. Box 1151, Longview, Texas (B)
 Price Constr. Co., P. O. Box 593, Marshall, Texas (B)
 Sharrock, J. A., & Sons, P. O. Box 268, Marshall, Texas (B)
 Thompson & Morton Co., P. O. Box 867, Kilgore, Texas (B)
 Wilmoth, Tom, 108 Highland Ave., Longview, Texas (B)

(o) RIO GRANDE VALLEY CHAPTER

President—E. J. Waitman, 617 S. West St., Box 94, Harlingen, Texas
Managing Director—Randolph Fleuriot, Box 496, Harlingen, Texas
Telephone: 1807

Allen, Fred M., 718 N. Milam St., San Benito, Texas (B)
 Buice, A. A., Box 422, Elsa, Texas (B)
 Choate, Jack, 318 N. 4th St., P. O. Box 1465, Harlingen, Texas (B)
 Hendricks, Harold, Contr. Co., One Mile S. 10th St., McAllen, Texas (B)
 Hughes, J. B., Box 902, Brownsville, Texas (B)
 LeMay, Ralph B., 811 Nebraska, Weslaco, Texas (B)
 Marchant Bros., Rm. 309, Hidalgo County Bk. Bldg., P. O. Box 545, Mercedes, Texas (B)
 Mullen, D. L., & Co., 155 Palm Blvd., Brownsville, Texas (B)
 Parker Constr. Co., P. O. Box 821, Harlingen, Texas (B)
 Smith, Reginald E., Crockett Rd., Harlingen, Texas (B)
 Swanzy, Ralph, 900 Ash Dr., P. O. Box 196, Weslaco, Texas (B)
 Thise, C. P., 1229 W. Jackson, Box 1910, Harlingen, Texas (B)
 Uhlhorn, W. B., 123 S. 1st St., Box 2028, Harlingen, Texas (B)
 Waitman, E. J., 617 S. West St., Box 94, Harlingen, Texas (B)

Local Members

Hair, J. L., Construction Company, 2704 Kemp Blvd., Wichita Falls, Texas (B)
 Leavell, C. H., & Co., 1900 Wyoming St., El Paso, Texas (B)
 Morgan, J. E., & Sons, P. O. Box 721, El Paso, Texas (B)
 Ponsford Bros., P. O. Box 1412, El Paso, Texas (B)
 Progressive Builders Associated, Inc., 2510 W. Wall St., P. O. Box 952, Midland, Texas (B)
 Templeton-Cannon, P. O. Box 548, San Angelo, Texas (B)

43. UTAH

(a) INTERMOUNTAIN BRANCH

President—Geo. R. Putnam, The Utah Construction Co., 57 E. 4th, So., Salt Lake City 11, Utah
Manager & Counsel—Allan E. Mecham, 430 S. Main St., Salt Lake City 1, Utah
Telephones: 5-7503 & 5-7504

Barker, Ellis W., Co., 302-303 Ness Bldg., Salt Lake City 1, Utah (B)
 Biesinger, Geo. L., & Son, 1705 Browning Ave., Salt Lake City, Utah (B)
 Bowers Bldg. & Constr. Co., 1033 S. State St., Salt Lake City 4, Utah (B-H)
 Brown, Alfred, Constr. Co., 627 Dooly Bldg., Salt Lake City, Utah (B)
 Burke, Jas. J., Co., 405 Kearns Bldg., Salt Lake City 1, Utah (B-H)
 Campion Co., 202 21st St., Ogden, Utah (B)
 Child, Ralph E., 1400 E. 4th, So., Springville, Utah (B)
 Christensen Constr. Co., Box 1165, Salt Lake City 10, Utah (H-RR)
 Christiansen Bros., 209 W. 13th, So., P. O. Box 1736, Salt Lake City 1, Utah (B)
 Chytraus Bros. Co., 2040 Redondo Ave., Salt Lake City, Utah (B)
 Clyde, W. W., & Co., Springville, Utah (H-Hvy)
 Davis, Ben H., 223 Interurban Depot Bldg., P. O. Box 1793, Salt Lake City, Utah (B)
 Dorland, E. H., Constr. Co., 1309 Jefferson St., Salt Lake City, Utah (B)
 Fors, Carl S., Co., 1639 E. 56th, So., Murray, Utah (B)
 Fullmer Bros., 1600 Jefferson St., Salt Lake, Utah (B)
 Gardner, W. W., 207 Interurban Bldg., Salt Lake City 1, Utah (B-H-Hvy)
 Garff, Mark B., Ryberg & Garff, Box 1204, 850 W. 15th, No., Salt Lake City, Utah (B)
 Germer, Abbott & Waldron Constr. Co., Tremonton, Utah (H-Hvy)
 Gibbons & Reed Co., 259 W. 3d South St., Salt Lake City 1, Utah (H-Hvy-RR)
 Groneman & Co., 70 W. 5th, So., Provo, Utah (B)
 Hilton & Carr, 922 12th St., Box 572, Ogden, Utah (B)
 Horman Constr. Co., 1760 S. State St., Salt Lake City, Utah (B)
 Jacobsen Constr. Co., 724 S. 3d, E., Salt Lake City 2, Utah (B)
 Jensen Bros., 213 Ness Bldg., Salt Lake City 1, Utah (B)
 Jensen, R. M., Constr. Co., 1057 S. 4th, W., Salt Lake City, Utah (H-Hvy)
 Johnson, L. T., 709 Wall Ave., Ogden, Utah (H)
 Johnson, Le Grand, 595 E. 1st, So., Logan, Utah (H-Hvy)
 Kloefer Constr. Co., E. Center St., Logan, Utah (B)
 Larsen Constr. & Engr. Co., 2667 Lincoln Ave., Ogden, Utah (B)
 McCullough, Maurice B., 503 13th Ave., Salt Lake City 3, Utah (B)
 McCullough, Royden K., 676 G St., Salt Lake City 3, Utah (B)

(Symbols following names indicate type of construction performed by company; B—Building; H—Highway; Hvy—Heavy; RR—Railroad.)

UTAH—Continued

McKean Constr. Co., 1625 Pioneer Rd., Industrial Center, Salt Lake City 4, Utah (B)
 Mendenhall, Deal, Springville, Utah (H-Hvy)
 Mickelson, John H., 528 E. Center St., Logan, Utah (B)
 Morrin, M., & Son, Inc., 473 W. 2d St., P. O. Box 1148, Ogden, Utah (B)
 Nelson, Carl E., P. O. Box 397, Logan, Utah (H)
 Nelson, Olof, Constr. Co., 620 S. Main St., Box 413, Logan, Utah (H)
 Oakland Constr. Co., 2683 Glenmare St., Salt Lake City, Utah (B)
 Olson Constr. Co., 1549 S. 2d., W., P. O. Box 89, Salt Lake City, Utah (B)
 Parson & Fife Constr. Co., 620 E. 5th, So., Box 563, Brigham City, Utah (H)
 Paulsen Constr. Co., 1425 Jefferson St., P. O. Box 2514, Salt Lake City 4, Utah (B)
 Plewe Constr. Co., 838 E. S. Temple St., Salt Lake City, Utah (B)
 Raymond, Ace S., 1032 N. Main St., Box 445, Logan, Utah (B)
 Reynolds Constr. Co., Springville, Utah (H-RR)
 Romney, G. Maurice, 249 E. 4th, So., Salt Lake City, Utah (B)
 Smith, Enoch, Sons Co., 1441 Beck St., Salt Lake City 16, Utah (H-Hvy)
 Springmeyer Investment & Constr. Co., 153 S. 2d, E., Provo, Utah (H-Hvy)
 Stettler, Ernest, & Sons, 672 E. 9th, No., Logan, Utah (B)
 Strong & Co., Springville, Utah (H-Hvy-RR)
 Sumson, J. M., & Sons, 389 E. 1st, So., Springville, Utah (H-Hvy-RR)
 Thorn Constr. Co., Inc., Box 111, Springville, Utah (H-RR)
 Tolboe & Harlin Constr. Co., 1150 S. 4th, E., P. O. Box 411, Provo, Utah (B)
 Tolboe & Wootton Constr. Co., R. F. D. 2, Box 78-A, Provo, Utah (B)
 Utah Construction Co., The, 57 E. 4th, So., Salt Lake City 10, Utah (B-H-Hvy-RR)
 Vincent-Peterson Co., 614 S. 3d, W., Salt Lake City 1, Utah (B)
 Walker, J. B. & R. E., 21 S. 10 West St., Salt Lake City 4, Utah (H-Hvy)
 Waterfall Constr. Co., 1685 Wall Ave., Ogden, Utah (H-Hvy)
 Wheeler & Tempest, 22½ E. 1st, So., Salt Lake City 1, Utah (H-Hvy)
 Wheelwright Constr. Co., 2300 East Ave., P. O. Box 109, Ogden, Utah (H)
 Whiting, Floyd S., P. O. Box 158, Murray, Utah (H-Hvy-RR)
 Whiting & Haymond, 250 W. 2d, No., Springville, Utah (H-Hvy-RR)
 Whitmeyer, Geo. A., & Sons Co., 2759 Grant Ave., P. O. Box 856, Ogden, Utah (B)
 Witt Constr. Co., Payson, Utah (B)
 Young, L. A., Constr. Co., Richfield, Utah (H)
 Young, Perce, Bldg. Constr., 2750 S. Main St., Salt Lake City 15, Utah (B)
 Young & Smith Constr. Co., 204 Beason Bldg., Salt Lake City 5, Utah (H)

45. VIRGINIA

(a) VIRGINIA BRANCH

President—John W. Russell, Doyle & Russell, Central Natl. Bk. Bldg., Richmond 19, Va.
Secretary—Chas. P. Bigger, 603 E. Franklin St., Richmond 19, Va.
Telephone: 2-3438

Barger, Chas. W., & Son, P. O. Box 778, Lexington, Va. (B)
 Blackwell Engr. Co., Warrenton, Va. (B-H)
 Bowerman Bros., P. O. Box 232, Berryville, Va. (B-Hvy)
 Carpenter Constr. Co., 700 Bk. of Commerce Bldg., Norfolk 10, Va. (Hvy)
 Carter-Hassell Constr. Co., Waco St. & Naval Base Rd., P. O. Box 9645, Norfolk 5, Va. (B)
 Conquest, Moncure & Dunn, Inc., 208 E. Cary St., Richmond 19, Va. (B-Hvy)
 Daniel, John W., & Co., Inc., P. O. Box 458, Danville, Va. (B)
 Davenport, A. W., & Assos., Inc., 3122 W. Clay St., Richmond 21, Va. (B-Hvy)
 DeLashmutt Bros., Inc., 907 S. Highland St., Arlington, Va. (H-Hvy-RR)
 Doyle & Russell, Central Natl. Bk. Bldg., Richmond 19, Va. (B)
 English Constr. Co., Altavista, Va. (B)
 Ferguson Corp., P. O. Box 480, Hampton, Va. (B)
 Fuqua, Fred B., 202 Krise Bldg., Lynchburg, Va. (B)
 Gannaway, F. J., 7460 N. Shore Rd., Norfolk, Va. (H-Hvy)
 Graham Bros., 906 Southern States Bldg., P. O. Box 423, Richmond, Va. (B)
 Gresham, E. T. Co., Inc., P. O. Box 1077, Norfolk 1, Va. (Hvy)
 Harwood Constr. Co., Law Bldg., Newport News, Va. (B)
 Houska, J. R., Co., Inc., P. O. Box 9656, Norfolk 5, Va. (B)
 Howard-Mitchell Constr. Co., P. O. Box 1433, Richmond 20, Va. (B-Hvy)
 Hudgins, M. S., 21 College Ave., Salem, Va. (H-Hvy-RR)
 Ivy Constr. Corp., P. O. Box 139, Charlottesville, Va. (B)
 Kea, Silas S., & Sons, Box 137, Ivor, Va. (B)
 Laburnum Constr. Corp., Box 1234, Richmond 9, Va. (B)
 Lang Constr. Co., Inc., 21 S. King St., Hampton, Va. (B-Hvy)
 Lee, R. E., & Son, Inc., P. O. Box 415, Charlottesville, Va. (B)
 Lewis, C. L., Box 760, Lynchburg, Va. (B)
 Lockwood, C. W., 228 Mallory Ave., Hampton, Va. (B)
 Marquis, Robt. R., 2229 County St., Portsmouth, Va. (B)
 Mathers, J. S., Inc., 201 S. Wayne Ave., Waynesboro, Va. (B)
 Mills, Ralph E., Co., P. O. Box 513, Salem, Va. (H-Hvy)
 Parrott, B. F., & Co., Inc., 811 Boxley Bldg., P. O. Box 1791, Roanoke 8, Va. (B)
 Perrin, J. Kennon, Co., 5th & Cary Sts., Richmond 19, Va. (B)
 Pettyjohn, John P., & Co., 212 8th St., Lynchburg, Va. (B-RR)

Plotzer, E. & E. J., P. O. Box 1074, Roanoke, Va. (Hvy)
 Reid & Hope, 153 N. Main St., P. O. Box 294, Suffolk, Va. (B)
 Sawyer Constr. Co., 300 Cherokee Rd., Hampton, Va. (B-Hvy)
 Scott, W. H., Inc., P. O. Drawer 418, Franklin, Va. (H)
 Shockey, Howard, & Sons, Inc., P. O. Box 767, Winchester, Va. (B)
 Showalter, F. L., Inc., Box 623, 1601 Allied Arts Bldg., Lynchburg, Va. (B-Hvy)
 States Constr. Co., Inc., 3000 Warwick Ave., P. O. Box 664, Newport News, Va. (B-Hvy)
 Thorington Constr. Co., Inc., 2106 N. Hamilton St., P. O. Box 10, Richmond, Va. (B)
 Turner, J. M., & Co., Inc., P. O. Box 1818, Roanoke, Va. (B)
 Wattinger, R. H., 1 N. 6th St., P. O. Box 484, Richmond, Va. (B)
 Wise Contr. Co., P. O. Box 547, Richmond 4, Va. (B)

46. WASHINGTON

(a) MOUNTAIN PACIFIC CHAPTER

President—T. H. Youell, Diesel Oil Sales Co., 2155 Northlake Ave., Seattle 3, Wash.
Secretary-Manager—Paul Fredrickson, Benjamin Franklin Hotel, Seattle 1, Wash.
Telephone: Seneca 0026

Ace Constr. Co., 4002 2d Ave., N. E., Seattle 5, Wash. (Hvy)
 American Pile Driving Co., Pier 2, Everett, Wash. (Hvy)
 Anderson, P. J., & Sons, 13501 Aurora Ave., Seattle 33, Wash. (Hvy)
 Argentieri & Colarossi, 1819 Weller, Seattle 44, Wash. (Hvy)
 Associated Sand & Gravel Co., 2508 Colby Ave., Everett, Wash. (H-Hvy)
 Atkinson, Guy F., Co., 342 Skinner Bldg., Seattle 1, Wash. (H-Hvy)
 Austin, Robt. W., Box 4056, Interbay Sta., Seattle 99, Wash. (H)
 B & M Constr. Corp., 240 Central Bldg., Seattle 4, Wash. (Hvy)
 Badraun, J. J., 109 N. 122 St., Seattle 33, Wash. (H-Hvy)
 Bay Constr., Inc., 1762 Airport Way at Holgate, Seattle 4, Wash. (Hvy)
 Bellevue Constr. Co., Box 111, Bellevue, Wash. (H-Hvy)
 Birbeck, L. J., P. O. Box 666, Oswego, Oreg. (H-Hvy)
 Birch, S., & Sons Constr. Co., 208 Central Bldg., Seattle, Wash. (H-Hvy)
 Boespflug, J. C., Constr. Co., 1912 4th Ave., So., Seattle, Wash. (B-H-Hvy)
 Brady Constr. Co., 707 Spokane St., Seattle 4, Wash. (B-Hvy)
 Butler, M. P., 3419 13th Ave., S. W., Seattle 4, Wash. (B-Hvy)
 C. & E. Constr. Co., Inc., 507 Masonic Bldg., Yakima, Wash. (H)
 Cascade Contrs., Inc., Box 4056, Interbay Sta., Seattle 99, Wash. (Hvy-RR)
 Central Sand & Gravel Co., Box 293, Pasco, Wash. (H)

WASHINGTON—Continued

Clevenger, Howard, Co., 216 W. 13th St., Port Angeles, Wash. (H-Hvy)
 Columbia Asphalt Paving Co., 219-220 Masonic Temple Bldg., Yakima, Wash. (H)
 Cooney, Don L., Inc., 1749 Airport Way, Seattle 4, Wash. (Hvy)
 Dahlberg, S. A., 1412 Queen Anne Ave., Seattle 9, Wash. (Hvy)
 Dawson Constr. Co., 1015 C St., P. O. Box 187, Bellingham, Wash. (H)
 Diesel Oil Sales Co., 2155 Northlake Ave., Seattle 3, Wash. (H)
 Doolittle Constr. Co., 510 Adams St., Seattle 8, Wash. (H)
 Dowell, L. J., Inc., 4501 9th, N. W., Seattle 7, Wash. (H-Hvy)
 Ellis Constr. Co., P. O. Box 337, Ephrata, Wash. (H-Hvy)
 Erickson Paving Co., 1550 N. 34th St., Seattle 3, Wash. (H-Hvy)
 Excavators, Inc., 5756 29th, N. E., Seattle 5, Wash. (Hvy)
 Fielding & Shepley, Inc., 1258 Bohn Ave., St. Paul 4, Minn. (H-Hvy)
 Fiorito Bros., 1100 Leary Way, Seattle 7, Wash. (H)
 Fiorito, N. Co., 844 W. 48th St., Seattle 7, Wash. (H)
 Funderburk Constr. Co., Rt. 2, Arlington, Wash. (H-Hvy)
 General Construction Company, P. O. Box 3244, Seattle 14, Wash. (B-H-Hvy)
 Goetz & Brennan, Seaboard Bldg., Rm. 914, Seattle 1, Wash. (H-Hvy)
 Goodfellow Bros. Inc., Box 1337, Wenatchee, Wash. (H-Hvy)
 Govan, Hugh, Box 308, Port Angeles, Wash. (H)
 Grays Harbor Constr. Co., P. O. Box 743, Aberdeen, Wash. (B-H)
 Gredvig, Maurice, P. O. Box 355, Yakima, Wash. (H)
 Halleran Bros., 416 Virginia St., Seattle 1, Wash. (H)
 Hardison, J. W., P. O. Box 417, Ephrata, Wash. (H)
 Hawkins & Armstrong, 16274 39th, N. E., Seattle 55, Wash. (B-H)
 Hoagland-Findlay Engr. Co., Rm. 327, Lyon Bldg., 607 3d Ave., Seattle, Wash. (Hvy)
 Hoback, L. E., 2420 E. Grand Ave., Everett, Wash. (H-Hvy)
 Jarvis, Paul, Inc., 1070 W. Ewing St., Seattle 99, Wash. (H-Hvy)
 Johnson, A. W., Co., Inc., 208 E. Pacific St., Seattle 5, Wash. (B-H)
 Jussel, Joe A., Dellesta Park, Bellingham, Wash. (H)
 Kathman, Herman, 12054 23d, N. E., Seattle 55, Wash. (H-Hvy)
 Kiewit, Peter, Sons' Co., 1300 Aloha St., Seattle 9, Wash. (B-H-Hvy)
 Knowles, John B., 1040 Monroe St., Wenatchee, Wash. (Hvy)
 Lundberg, Joe, Constr. Co., 3220 E. Republican, Seattle 2, Wash. (Hvy)
 M-B Contr. Co., 4108 43d Ave., N. E., Seattle 5, Wash. (Hvy)
 M. G. M. Constr. Co., 516 N. Fir St., Olympia, Wash. (Hvy)

MacRae Bros., 2733 4th Ave., So., Seattle 4, Wash. (B-H)
 Malaspina, Matt, & Co., 1901 23d Ave., So., Seattle 44, Wash. (Hvy)
 McKellar, Everett, Box 965 Chelan, Wash. (H)
 Misco, Inc., Pier 50, Seattle 4, Wash. (Hvy)
 Monroe Constr. Co., W. Main & Blakely Sts., Monroe, Wash. (H-Hvy)
 Morrison Constr. Co., 512 21st, So., Seattle 4, Wash. (H-Hvy)
 Morrison-Knudsen Co., Inc., 603 Hoge Bldg., Seattle 4, Wash. (B-H-Hvy-RR)
 Moss, R. L., Constr. Co., P. O. Box 37, Zenith, Wash. (Hvy)
 Munter, M. P., Co., 1428 Joseph Vance Bldg., Seattle 1, Wash. (H)
 Newburn, L. L., 6262 14th Ave., So., Seattle 8, Wash. (Hvy)
 Norris, Guy J., 1425 4th Ave. Bldg., Seattle 1, Wash. (H)
 North Seattle Constr. Co., 13061 37th, N. E., Seattle 55, Wash. (Hvy)
 Northwest Constr. Co., 3950 6th Ave., N. W., Seattle 7, Wash. (H-Hvy)
 Northwest Precote, Inc., 7343 E. Marginal Way, Seattle 8, Wash. (H-Hvy)
 Nygren, David, 309 Lloyd Bldg., Seattle 1, Wash. (H)
 Osberg Constr. Co., 1132 N. 128, Seattle 33, Wash. (H-Hvy)
 Pacific Constr. Co., 3002 16th Ave., So., Seattle 44, Wash. (Hvy)
 Patricelli, John, 1534 32d Ave., So., Seattle 4, Wash. (Hvy)
 Phillips, Alton V., 1400 W. Nickerson, Seattle 99, Wash. (B-Hvy)
 Pieier Constr. Co., 705 Shafer Bldg., Seattle 1, Wash. (H-Hvy)
 Port Constr. Co., P. O. Box 868, Port Angeles, Wash. (H)
 Prepakt Concrete Company, The, 208 Columbia St., Seattle 4, Wash. (Hvy)
 Puget Sound Bridge & Dredg. Co., 2929 16th Ave., S. W., Seattle 4, Wash. (H-Hvy)
 Romano, Toney, Co., 1833 Dearborn St., Seattle 4, Wash. (Hvy)
 Rumsey & Co., 3821 Airport Way, Seattle 8, Wash. (H-Hvy)
 Russell-Gillett Co., P. O. Box 5, Cle Elum, Wash. (H)
 Scalzo, Thos., Co., 3211 Airport Way, Seattle 4, Wash. (H-Hvy)
 Scarsella Bros., 14618 22d Ave., So., Seattle 88, Wash. (Hvy)
 Scheumann & Johnson, 1001 Lloyd Bldg., Seattle 1, Wash. (Hvy)
 Seattle Contr. Co., 101 Nickerson St., Seattle 9, Wash. (H)
 State Constr. Co., 1245 Poplar Pl., Seattle 44, Wash. (Hvy)
 Stevens, A. W., Contr. Co., 119 S. Cherry St., P. O. Box 624, Burlington, Wash. (H-Hvy)
 Stoen's Landscape & Constr. Co., 8406 Aurora Ave., Seattle 3, Wash. (H-Hvy)
 Superior Constr. Co., 4610 37th Ave., S. W., Seattle 6, Wash. (H)
 Surace, J. P., Constr. Co., 3238 Seaview Ave., Seattle 77, Wash. (H-Hvy)
 Sussex, R. H., 1744 State St., P. O. Box 1, Bellingham, Wash. (H-Hvy)

Templeton, E. J., 2924 Lombard, Everett, Wash. (H-Hvy)
 Thorburn & Logozo, 4608 36th, S. W., Seattle 6, Wash. (B-H-Hvy)
 Traverso, T. W., 3006 S. 148th, Seattle 8, Wash. (H-Hvy)
 Troxell, J. A., P. O. Box 177, Enumclaw, Wash. (Hvy)
 Utilities Constr. Service, Inc., 2003 S. 136th St., Seattle, Wash. (Hvy)
 Utility Contrs., 1043 E. 90th, Seattle 5, Wash. (Hvy)
 Valley Constr. Co., 7722 Rainier Ave., Seattle 3, Wash. (Hvy)
 Washington Asphalt Co., 309 W. 39th, Seattle 7, Wash. (H)
 Welcome, J. J., Constr. Co., 10206 Evanston Ave., Seattle 33, Wash. (H-Hvy)
 Western Asphalt Co., 309 W. 39th, Seattle 7, Wash. (H)
 Wilder, C. V., Co., 2006 State St., Bellingham, Wash. (H-Hvy)
 Wilder, F. E., Rt. 6, Box 36, Olympia, Wash. (Hvy)

(b) SEATTLE CHAPTER

President—Howard Lease, Lease & Leigland, 1501 N. 35th St., Seattle 3, Wash.
Manager—E. B. Hickok, 215 W. Harrison St., Seattle 99, Wash.
Telephone: AL-5433

Anderson, Allen R., 3819 10th, N. E., Seattle 5, Wash. (B)
 Armstrong & Armstrong, P. O. Box 59, Wenatchee, Wash. (B)
 Atherton Constr. Co., 1101 Terminal Sales Bldg., Seattle 1, Wash. (B)
 Baldwin, L. E., Inc., 1103 N. 36th, Seattle 3, Wash. (B)
 Bartram, Wilmer W., P. O. Box 502, Grandview, Wash. (B)
 Baugh Co., The, 4438 California Ave., Seattle 6, Wash. (B)
 Becker, H. L., & Co., 1201 Dexter Ave., Seattle 9, Wash. (B)
 Boen, Olav, Constr. Co., 3647 Stone Way, Seattle 3, Wash. (B-Hvy)
 Boespflug, J. C., Constr. Co., 1912 4th Ave., So., Seattle 4, Wash. (B-H-Hvy)
 Brazier Constr. Co., 309 Pontius, No., Seattle 9, Wash. (B)
 Buchanan, T. N., Constr. Co., 835 W. 48th St., Seattle 7, Wash. (B)
 Cawdrey & Vemo, 651 Central Bldg., Seattle 4, Wash. (B)
 Ceis, Philip L., 3112 65th, S. W., Seattle 6, Wash. (B)
 Chisholm & Eiford, 1726 State St., Box 1073, Bellingham, Wash. (B)
 Clark, W. G., Co., 408 Aurora Ave., Seattle 9, Wash. (B)
 Coast Constrs., 3647 Stone Way, Seattle 3, Wash. (B)
 Daniels, O. B., & Son, 1200 Westlake, No., Seattle 9, Wash. (B)
 Ferguson, H. S., Co., 3201 Fairview, No., Seattle 2, Wash. (B)
 Fiksdal & Ness, 1125 W. 53rd, Seattle 7, Wash. (B-Hvy)

(Symbols following names indicate type of construction performed by company; B—Building; H—Highway; Hvy—Heavy; RR—Railroad.)

A.G.C. DIRECTORY

WASHINGTON—Continued

Gaasland Co., Inc., 1155 Ellis St., Bellingham, Wash. (B)
Hainsworth Constr. Co., 3028 Western Ave., Seattle 6, Wash. (B)
Hall-Atwater Co., 907 Arctic Bldg., Seattle 4, Wash. (B)
Harfst-Henson, 127 N. 35th, Seattle, Wash. (B)
Harfst, Walter W., Inc., 127 N. 35th, Seattle, Wash. (B)
Henrikson Constr. Co., 4025 Stone Way Seattle 3, Wash. (B)
Hodges Constr. Co., Higgins Bldg., 330 2d Ave., W., Seattle 99, Wash. (B)
Jentoft & Forbes, 910 W. 45th St., Seattle 7, Wash. (B)
Kuney, Johnson Co., 235 9th Ave., No., Seattle 9, Wash. (B-H-Hvy)
Lambert Constr. Co., 208 Columbia St., Seattle 4, Wash. (B)
Larsen Constr. Co., 466 Colman Bldg., Seattle 4, Wash. (Hvy)
Lease & Leigland, 1501 N. 35th St., Seattle 3, Wash. (B-H-Hvy)
Manson Constr. & Engr. Co., 821 Alaskan Way, Seattle 4, Wash. (B-Hvy)
McAbee, F. R., Inc., 921 Elliott Ave., W., Seattle 99, Wash. (B)
Mortensen, Nelse, & Co., Inc., 1021 Westlake, No., Seattle 9, Wash. (B)
Mowat, A. F., Constr. Co., 2833 Eastlake Ave., Seattle 2, Wash. (B)
Odegard Constr. Co., 37th Off Broadway, P. O. Box 735, Everett, Wash. (B)
Peabody & Co., 4319 Stone Way, Seattle 3, Wash. (B)
Petersen, Wm., 2915 1st Ave., Seattle 1, Wash. (B)
Peterson, Dale R., & Co., Inc., 3753 Brooklyn Ave., Seattle 5, Wash. (B)
Puget Sound Bridge & Dredg. Co., 2929 16th Ave., S. W., Seattle 4, Wash. (B-H-Hvy)
Seelye, Inc., 6845 29th Ave., N. E., Seattle 55, Wash. (B)
Sellen, John H., Constr. Co., 228 9th, No., Seattle 9, Wash. (B)
Shuck, E. F., 535 Pontius Ave., Seattle 9, Wash. (B)
Slate, W. A., 8225 17th Ave., N. E., Seattle 5, Wash. (B)
Sound Constr. & Engr. Co., 1300 Aloha St., Seattle 9, Wash. (B-Hvy)
Strand & Sons, 3939 University Way, Seattle 5, Wash. (B)
Teufel, Geo. E., Co., 4451 White-Henry-Stuart Bldg., Seattle 1, Wash. (B-Hvy)
Turnbull, B. F., Inc., 4351 Leary Way, Seattle 7, Wash. (B)
Turnquist, O. E., Constr. Co., 1305 Republican, Seattle 1, Wash. (B)
Valle, Henrik, Co., Inc., Box 4096, Interbay Sta., 407 3d Ave., W., Seattle 99, Wash. (B-Hvy)
Vandivort Constr. Co., No. 5 Phipps Bldg., Wenatchee, Wash. (B)
Veale Constr. Co., 323 2d & Cherry Bldg., Seattle 4, Wash. (B)
Warrack, J. B., Co., 706 Securities Bldg., Seattle 1, Wash. (B)
Watts, J. G., Constr. Co., 3419 16th Ave., W., Seattle 99, Wash. (B)

Welden, O. E., 2320 Nob Hill Ave., Seattle 9, Wash. (B)
Westland Constr. Co., Inc., The, 1105 Westlake Ave., No., Seattle 9, Wash. (B)
White, Noble W., Pier 65, Seattle 4, Wash. (B)
Wick & Dahlgren, 1700 21st Ave., So., Seattle 44, Wash. (B)
Wilson, J. H. Co., 801 Dexter Ave., Seattle 9, Wash. (B)
Wright, Howard S., & Co., Inc., 414 Pontius Ave., Box 3106, Seattle 14, Wash. (B)

(c) SPOKANE CHAPTER

President—N. A. Degerstrom, E. 15 32d Ave., Spokane, Wash.
Secretary-Treasurer—Verne D. Warren, S. 102 Stevens St., Spokane 8, Wash.
Telephone: Main 6822

Anderson, J. S., Constr. Co., 2124 N. Waterworks St., Spokane, Wash. (H)
Atkinson, Guy F., Co., 806 Cascade Bldg., Portland 4, Oreg. (H)
Atkinson & Jones Co., P. O. Box 742, Richland, Wash. (B-H)
Bair, Roy L., & Co., W. 1220 Ide Ave., Spokane, Wash. (B-H-Hvy)
Baulne & Frieske, P. O. Box 84, Yardley, Wash. (H)
Bryant, J. Arlie, 528 Hutton Bldg., Spokane, Wash. (H)
C. & E. Constr. Co., Inc., 507 Masonic Bldg., Yakima, Wash. (H)
Carbon Bros., 3430 N. Cook St., P. O. Box 5025, Sta. C, Spokane 13, Wash. (H)
Castle, M. F., 10503 N. Division, Spokane, Wash. (H)
Clifton & Applegate Co., Box 1473, Spokane, Wash. (H)
Collins, J. H., & Co., Walla Walla, Wash. (H)
Colonial Constr. Co., Box 1452, Spokane 6, Wash. (H)
Crick, Jas., & Sons, 210 Cliff Dr., Spokane, Wash. (H)
Degerstrom, N. A., E. 15 32d Ave., Spokane, Wash. (H)
General Construction Company, 4850 N. W. Front Ave., P. O. Box 3860, Portland 8, Oreg. (B-H-Hvy-RR)
Grant Constr. Co., P. O. Box 351, Coeur d'Alene, Idaho (H)
Hagman, Henry, Cashmere, Wash. (H)
Halvorsen, H., Inc., E. 4324 Trent Ave., Spokane 15, Wash. (B-H)
Hansen & Parr Constr. Co., 1103 N. Calispel, Spokane, Wash. (H)
Hewett, F. R., & Co., P. O. Box 46, Parkwater, Wash. (H)
Hohner, Carl, & Son, E. 6203 Sharp, Spokane, Wash. (B)
Inland Asphalt Co., 10th & Havana Sts., Spokane, Wash. (H)
Joslin, C. W., & Son, 5311 E. Boone, Box 1174, Spokane 5, Wash. (H)
Kiewit, Peter, Sons' Co., 1300 Aloha St., Seattle 9, Wash. (B-H)
Konen, J. F., Constr. Co., 522 Park St., Lewiston, Idaho (B-H)
Kuney, Max J., Co., N. 120 Ralph St., Box 4008, Sta. B, Spokane 15, Wash. (H-Hvy)

Mast, Harold T., 502 S. Main St., Colfax, Wash. (H)
Materne Bros., N. 2424 Division St., Spokane, Wash. (H)
McAtee & Heathe, E. 3527 Trent Ave., Box 2188, Spokane 5, Wash. (H)
McCartney, Birch, Veradale, Wash. (H)
McClintock, R. S., Diamond Drill Co., 418 W. 2d Ave., Spokane, Wash. (H)
McNary Dam Contrs., P. O. Box 132, Umatilla, Oreg. (H-Hvy)
Meyers, Walter, Hyde Bldg., Spokane, Wash. (B)
Murphy Bros., 3728 E. Broadway, Spokane 10, Wash. (H)
Oneal, C. E., Co., Inc., Box 268, Ellensburg, Wash. (H-Hvy)
Petsch, Walton H., 807 W. Mallon Ave., Spokane, Wash. (B)
Power, Chas. A., E. 27 8th Ave., Box 1220, Spokane 5, Wash. (H-Hvy)
S & F Constr. Co., P. O. Box 15, Yardley, Wash. (H)
Sather & Sons, P. O. Box 197, Spokane, Wash. (H)
Smith, Wm. A., Contr. Co., Inc., 1401 Fairfax Trafficway, Kansas City 15, Kans. (H)
Standard Asphalt Paving Co., N. 119 Post, Spokane 8, Wash. (H)
Sullivan, D. A., Parkwater, Wash. (H)
Weist, Ray, P. O. Box 191, Yakima, Wash. (H)
Weller Bros., N. 633 Madelia St., Spokane, Wash. (H)
Whitley, D. A., Co., 2417 N. Division St., Spokane 13, Wash. (H)

(d) TACOMA CHAPTER

President—Lige Dickson, Lige Dickson Co., 3315 S. Pine St., Tacoma, Wash.
Manager—C. W. Todd, 452 St. Helens Ave., Tacoma 2, Wash.
Telephone: BR 2297

Anderson Bridge Constr. Co., 4130 S. Adams, Tacoma, Wash. (H-Hvy)
Anderson Constr. Co., 115 S. 9th St., Tacoma, Wash. (B)
Asphalt Paving & Engr. Co., Box 106, Tacoma 9, Wash. (H-Hvy)
Atherton Constr. Co., 1101 Terminal Sales Bldg., Seattle 1, Wash. (B)
Atkinson, Guy F., Co., 806 Cascade Bldg., Portland 4, Oreg. (H-Hvy)
Barr, G. W., Constr. Co., 8824 John Dower Rd., S. W., Tacoma, Wash. (B)
Bergesen, Sam, Box 971, Rt. 10, Tacoma, Wash. (B)
Bonnell Constr. Co., 760½ Commerce St., Tacoma, Wash. (B)
Briggs Constr. Co., 1107 A St., Tacoma 22, Wash. (B)
Burrows & Milone, 3215 S. M St., Tacoma, Wash. (Hvy)
Construction Engrs. & Contrs., 801 Port of Tacoma Rd., Tacoma, Wash. (B-Hvy)
Cooney, Don L., Inc., 2318 S. Tacoma Way, Tacoma, Wash. (Hvy)

WASHINGTON—Continued

Davidson, C. F., Co., 3101 S. Lawrence, Tacoma, Wash. (B-Hvy)
 Dickson, Lige, Co., 3315 S. Pine St., Tacoma, Wash. (Hvy)
 Earley, Roy T., Co., 321 Middle Waterway, P. O. Box 1591, Tacoma, Wash. (B-Hvy)
 Freigang Constr. Co., 10310 Gravelly Lake Dr., Tacoma, Wash. (B)
 Goettling, E., & Sons, 2911 S. Chandler, Tacoma, Wash. (B)
 Graham, J. F., Rt. 7, Box 171, Tacoma, Wash. (B)
 Hall Constr. Co., 9605 DeKoven Dr., S. W., Tacoma 9, Wash. (B)
 Hamilton Bldrs., 211 Maple Park, Olympia, Wash. (H-Hvy)
 Harrington, Rex N., 3211 Center St., Tacoma 3, Wash. (B)
 Harrison Bros. Co., The, 225 Wakefield Dr., Tacoma, Wash. (H-Hvy)
 Hart Constr. Co., 3536 E. 11th, Tacoma, Wash. (B-Hvy)
 Homann, A. G., P. O. Box 37, Lacey, Wash. (B)
 Industrial Engrs. & Contrs., Inc., 711 Middle Waterway, Tacoma, Wash. (Hvy)
 Jones, Dolph, 2213 N. Proctor, Tacoma, Wash. (B)
 Kelly, Ray R., & Co., 3111 S. Pine St., Tacoma, Wash. (B-Hvy)
 Kendall Constr. Co., 3211 Center St., Tacoma, Wash. (Hvy)
 Keltner Bros., 419 St. Helens Ave., Tacoma, Wash. (B)
 Larson, O. F., & Son, Pacific Savings Bldg., Tacoma, Wash. (B-Hvy)
 Macdonald Bldg. Co., 1517 S. Tacoma Way, Tacoma, Wash. (B)
 McPhail Engr., 3729 Center St., Tacoma, Wash. (Hvy)
 Ostruske-Murphy, Inc., 2907 S. A St., Tacoma, Wash. (B)
 Pacific Sand & Gravel Co., P. O. Box 628, Centralia, Wash. (H-Hvy)
 Paine-Gallucci, Inc., 1521 S. Grant St., Tacoma, Wash. (H-Hvy)
 Puget Sound Constr. Co., 8110 Washington Blvd., S. W., Tacoma, Wash. (B-Hvy)
 Seines, C. S., Constr. Co., Inc., 104 S. Tower Ave., Centralia, Wash. (B)
 Shotwell, J. D., 3113 S. Pine St., Tacoma 3, Wash. (H-Hvy)
 Sjoloven Bros., 3411 S. Pear St., Olympia, Wash. (H-Hvy)
 Standard Constr. Co., 315 E. 25th St., Tacoma, Wash. (B)
 Strong & Macdonald, Inc., 4045 Ruston Way, Tacoma, Wash. (H-Hvy)
 Tacoma Constr. & Engr. Co., 3202 S. G St., Tacoma, Wash. (B)
 Utility Constr. Co., 3113 S. Pine St., Tacoma 3, Wash. (B-H-Hvy)
 Walker, E. G., 2814 N. Warner St., Tacoma, Wash. (B)
 Warter Constr. Co., 7829 Pacific Ave., Tacoma, Wash. (B)
 Woodworth & Co., Inc., 1200 E. D St., Tacoma, Wash. (H-Hvy)

(e) EASTERN WASHINGTON BUILDERS' CHAPTER

President—Vern Johnson, Busboom & Rauh, 601 N. Cedar, Spokane 11, Wash.
Executive Secretary—W. H. Peacock, S. 18 Monroe, Spokane 8, Wash.
Telephone: Madison 8525

AAA Constr. Co., N. 212 Division, Spokane, Wash. (B)
 Anderson-Hall Co., 809 N. Helena, Spokane, Wash. (B)
 Bair, Roy L., Co., W. 1220 Ide Ave., Spokane, Wash. (B)
 Bengal, A. M., 1029 W. Bridge, Spokane, Wash. (B)
 Bouten, Gus J., Constr. Co., N. 627 Napa, Spokane, Wash. (B)
 Busboom & Rauh, 601 N. Cedar, Spokane, Wash. (B)
 Central Constr. Co., W. 2028 Sinto, Spokane, Wash. (B)
 Cherf Bros. Constr., Ephrata, Wash. (B)
 George, Henry, & Sons, Hutton Bldg., Spokane, Wash. (B)
 Halvorson, H., Inc., E. 4324 Trent Ave., Spokane 15, Wash. (B)
 Hazen & Clark, N. 1101 Howard, Spokane, Wash. (B)
 Kenaston & Huntley, P. O. Box 144, Lewiston, Idaho (B)
 Lauch, C. B., Constr. Co., Box 2559, Boise, Idaho (B)
 McInnis Constr. Co., Hutton Bldg., Spokane, Wash. (B)
 Meyers, Walter, Hyde Bldg., Spokane, Wash. (B)
 Plath, Eric E., N. 4503 Hawthorne, Spokane, Wash. (B)
 Ritchie, A. Co., P. O. Box 253, Walla Walla, Wash. (B)
 Sandall, Arne, Hyde Bldg., Spokane, Wash. (B)
 Sound Constr. & Engr. Co., 1300 Aloha St., Seattle 9, Wash. (B-Hvy)
 Varnum, Walter, P. O. Box 983, Coeur d'Alene, Idaho (B)

47. WEST VIRGINIA

(a) THE ASSOCIATED GENERAL CONTRACTORS OF WEST VIRGINIA, INC.

President—Walter W. Seabright, Seabright Constr. Co., 4201 Wood St., Wheeling, W. Va.
Executive Secretary—Eugene H. Brown, 613 National Bk. of Commerce Bldg., Charleston, W. Va.
Telephone: 64-431

Abbott, W. A., Co., No. 5 Monongalia St., Charleston, W. Va. (B)
 Adams & Tate Constr. Co., 2725 Roanoke Ave., P. O. Box 60, Roanoke, Va. (H)
 Agnew Constr. Co., P. O. Box K, Roncverte, W. Va. (H-Hvy-RR)
 Agsten, H. B., Jr., 702 Pennsylvania Ave., Charleston 2, W. Va. (B)

Agsten, H. B., & Sons, Inc., United Carbon Bldg., P. O. Box 2707, Charleston 30, W. Va. (B)
 Andersons', Inc., 1500 Pennsylvania Ave., Charleston, W. Va. (H)
 Ankrom & Castin, 1040 Quincy St., Parkersburg, W. Va. (H-Hvy)
 Baker & Coombs, Inc., 319 Demain Ave., Box 732, Morgantown, W. Va. (B)
 Boso & Ritchie, Inc., Ravenswood, W. Va. (H-Hvy-RR)
 Bowers & Chilton, Inc., 954 Montrose Dr., So., Charleston 3, W. Va. (B)
 Browder, Earl T., Inc., 611 Pennsylvania Ave., St. Albans, W. Va. (B)
 Byrum Constr. Co., The, 12th & Water Sts., Wheeling, W. Va. (B)
 Charleston Concrete Floor Co., 1012 Pennsylvania Ave., Charleston 2, W. Va. (H-Hvy)
 Coast, H. M., Inc., 2222 Warwood Ave., Wheeling, W. Va. (H-Hvy)
 Coleman, L. S., Co., Inc., 209 1st Natl. Bk. Bldg., P. O. Box 189, St. Albans, W. Va. (H-Hvy-RR)
 Consolidated Engr. Co., P. O. Box 409, Wheeling, W. Va. (Hvy)
 Construction Service, Inc., 1601 Washington St., W., Charleston, W. Va. (H-Hvy-RR)
 Dowling Constr. Co., 510 4th St., Williams-town, W. Va. (B)
 Dravo Corporation, The Contracting Division, Neville Island, Pittsburgh 25, Pa. (Hvy)
 Ebeling, Robt. M., Constr. Co., P. O. Box 2182, 19 Simpson Ave., Elm Grove, Wheeling, W. Va. (B)
 Edmir Constr. Co., Inc., 2300 Blackwell Dr., Charleston 1, W. Va. (B)
 Ferguson & Edmondson Co., 412 Keystone Bldg., Pittsburgh 22, Pa. (B-H-Hvy-RR)
 Fisher, O. B., & Sons, P. O. Box 187, Logan, W. Va. (B)
 Hair, H. W., 916 Cove Rd., Cove Sta., Weirton, W. Va. (B)
 Harman Bros., Box 475, Grafton, W. Va. (B-H-Hvy)
 Harris, E. L., & Son, P. O. Box 2709, Charleston, W. Va. (B)
 Harris, Leonard W., 1428 Lee St., Charleston 1, W. Va. (B)
 Harrison Construction Company, 1101 Western Ave., Pittsburgh 33, Pa. (H-Hvy)
 Haslebacher, Henry, & Sons, Inc., P. O. Box 1504, Clarksburg, W. Va. (B)
 Hayne Engr. Co., 122½ Capitol St., Charleston 1, W. Va. (Hvy)
 Hewitt, R. N., 1012 Pennsylvania Ave., Charleston, W. Va. (H-Hvy)
 Higginbotham, A. G., Co., Charleston Natl. Bk. Bldg., Charleston, W. Va. (B)
 Hill Co., Inc., 472 Central Ave., Oak Hill, W. Va. (B)
 Hutchinson, J. M., Sandyville, W. Va. (H-Hvy)
 Jarvis-Courtney Corp., 410 Ohio Ave., Clarksburg, W. Va. (B)
 Jimison, C. H., Box 2181, Huntington 18, W. Va. (B)
 Johnson, G. C., Co., P. O. Box 949, Welch, W. Va. (B)

(Symbols following names indicate type of construction performed by company; B—Building; H—Highway; Hvy—Heavy; RR—Railroad.)

A.G.C. DIRECTORY

WEST VIRGINIA—Continued

Kenhill Constr. Co., 215 Sheridan Circle, P. O. Box 2772, Charleston, W. Va. (B)
 Kuhn Constr. Co., 18th Fl., Kanawha Valley Bk. Bldg., Charleston 1, W. Va. (B)
 Lewis, P. R., P. O. Box 1261, Huntington, W. Va. (B)
 Love, Inc., 510 49th St., S. E., Charleston 4, W. Va. (B)
 Lynch, Pugh & Corson, Inc., Box 664, Morgantown, W. Va. (B)
 McDonough Constr. Co., 325 7th St., Parkersburg, W. Va. (B-Hvy-RR)
 Miller, W. Harley, 212 S. Queen St., Martinsburg, W. Va. (B)
 Monty Bros., P. O. Box 151, St. Albans, W. Va. (H-Hvy-RR)
 Mott Core Drilling Co., 830 8th Ave., Huntington, W. Va. (B-H-Hvy-RR)
 Mountain State Constr. Co., 5111½ MacCorkle Ave., S. W., South Charleston 3, W. Va. (H-Hvy)
 Neighborgall Constr. Co., Guaranty Bk. Bldg., Huntington, W. Va. (B)
 Orders, W. R., 2405 Kanawha Terr., St. Albans, W. Va. (H-Hvy-RR)
 Parrott, B. F., & Co., Inc., 811 Boxley Bldg., P. O. Box 1791, Roanoke 8, Va. (B)
 Pellicione, D., & Co., West St. corner Lee Ave., Weirton, W. Va. (B)
 Permanent Bldrs., Inc., Ohio Ave., P. O. Box 348, Clarksburg, W. Va. (B)
 Persun Constr. Co., 604 7th Ave., Rear, Huntington, W. Va. (B)
 Plate Constr. Co., Inc., 726 Jeanette St., Parkersburg, W. Va. (B)
 Polino, Sam G., & Co., P. O. Box 750, Elkins, W. Va. (H-Hvy-RR)
 Robertson-Henry Co., P. O. Box 2078, Huntington, W. Va. (H-Hvy-RR)
 Schneider, H. W., 514 George St., Parkersburg, W. Va. (B)
 Seabright Constr. Co., 4201 Wood St., Wheeling, W. Va. (B)
 Shrum, Clyde M., P. O. Box 1294, Clarksburg, W. Va. (B)
 Shuttle, A., & Co., Inc., 203 Liberty Bldg., Jenkintown, Pa. (H-Hvy)
 Smithson Constr. Co., Inc., 204 Payne Bldg., P. O. Box 1946, Charleston, W. Va. (B)
 Sollitt Constr. Co., Inc., 301 S. Columbia St., South Bend 24, Ind. (B)
 Southeastern Constr. Co., Peoples Bldg., P. O. Box 727, Charleston, W. Va. (B)
 Stephens Constr. Co., 501 East St., Parkersburg, W. Va. (B)
 Stowe, Virgil, P. O. Box 990, Welch, W. Va. (B)
 Sutton Co., Inc., P. O. Box 428, Sta. A, Radford, Va. (H-Hvy-RR)
 Thompson & Street Co., P. O. Box 1284, Raleigh, N. C. (B-H)
 Vecellio & Grogan, P. O. Box 768, Beckley, W. Va. (H-Hvy-RR)
 Vecellio, Oscar, 130 Jefferson St., Beckley, W. Va. (H-Hvy)
 Viperman Constr. Co., P. O. Box 1352, 209 S. Fayette St., Beckley, W. Va. (B)

Weaver Crane & Trucking Co., Inc., 701 Atlas Bldg., P. O. Box 3123, Charleston 1, W. Va. (Hvy-RR)
 Wilson Bros., Inc., 3328 Emerson Ave., Parkersburg, W. Va. (B)

48. WISCONSIN

(a) MILWAUKEE CHAPTER

President—Robert C. Johnson, Siesel Constr. Co., 514 E. Ogden Ave., Milwaukee 2, Wis.
Manager—George A. Benish, 808 N. 3d St., 224-226 Century Bldg., Milwaukee 3, Wis.
Telephone: Broadway 1-7947

Bauer Constr. Co., Inc., 3411 W. Hopkins St., Milwaukee, Wis. (B)
 Becker, Roland H., Inc., Elm Grove, Wis. (B)
 Bentley Constr. Co., 125 E. National Ave., Milwaukee 4, Wis. (B-H-Hvy)
 Bentley, Thos. H., & Son, Inc., 3131 W. Mill Rd., Milwaukee 9, Wis. (B-Hvy)
 Buchholz, Walter T., Inc., 1026 N. Jackson St., Milwaukee 2, Wis. (B)
 Carlson, Geo., Co., 4041 N. Montreal St., Milwaukee 9, Wis. (B-Hvy)
 Dahlman Constr. Co., P. O. Box 1184, Milwaukee 1, Wis. (B)
 Drescher Co., 4602 N. 20th St., Milwaukee 9, Wis. (B)
 Gebhard-Berghammer, Inc., 5420 W. State St., Milwaukee 8, Wis. (B-Hvy)
 Hunzinger Constr. Co., Sta. K, Milwaukee 10, Wis. (B-Hvy)
 Klug & Smith Co., 4425 W. Mitchell St., Milwaukee 14, Wis. (B-Hvy)
 Knuth, E. C., & Co., 2919 W. Fond du Lac Ave., Milwaukee 10, Wis. (B-Hvy)
 Kroening Engr. Corp., 4500 W. Mitchell St., Milwaukee 14, Wis. (B-H)
 Lupinski, Inc., N. 1 & E. Capitol Dr., Milwaukee 12, Wis. (B-Hvy)
 Maier, Chas., & Son Co., 1633 N. 30th St., Milwaukee 8, Wis. (B)
 Oefflein, Walter W., Inc., 5345 N. Hopkins St., Milwaukee 9, Wis. (B-Hvy)
 Peters Constr. Co., 2640 N. Humboldt Ave., Milwaukee 12, Wis. (B)
 Reisinger, Robt. L., & Co., 733 N. Van Buren St., Milwaukee 2, Wis. (B-H)
 Schmitt, H., & Son, Inc., 930 E. Burleigh St., Milwaukee 12, Wis. (B-Hvy)
 Selzer-Ornst Co., 6222 W. State St., Milwaukee 13, Wis. (B-Hvy)
 Siderits Constr. Co., 3617 N. 2 St., Milwaukee 12, Wis. (B)
 Siesel Constr. Co., 514 E. Ogden Ave., Milwaukee 2, Wis. (B-Hvy)
 Stack Constr. Co., 3303 S. 20th St., Milwaukee 15, Wis. (B-H-Hvy)
 Steigerwald, Ed., & Sons, Inc., 5310 W. State St., Milwaukee 8, Wis. (B-Hvy)
 Universal Constr., Inc., 605 S. 12th St., Milwaukee 4, Wis. (B)
 Wolff, Arthur C., Inc., 3860 N. Bremen St., Milwaukee 12, Wis. (B)

(b) WISCONSIN CHAPTER

President—D. E. Thomsen, Thomsen-Abbott Constr. Co., 211 S. Central Ave., Marshfield, Wis.
Vice President—Millard Johnson, Johnson & Henrickson, 422 Dodge St., Racine, Wis.
Manager, Secretary-Treasurer—J. Harry Green, Jackman Bldg., Janesville, Wis.
Telephone: 6689

Abraham, Chas. W., Williams Bay, Wis. (B)
 Arnold, L. G., Inc., Eau Claire, Wis. (B-H-Hvy-RR)
 Babcock Constr. Co., 515½ 3d St., P. O. Box 396, Wausau, Wis. (B)
 Bahr Constr. Co., 2204 S. 10th St., Manitowoc, Wis. (Hvy)
 Bondgard Constr. Co., 1424 9th St., Racine, Wis. (B-Hvy)
 Central Constr. Co., 1220 Algoma Blvd., Oshkosh, Wis. (Hvy)
 Cullen, J. P., & Son, P. O. Box 72, Janesville, Wis. (B)
 Cunningham Bros., Inc., 359½ E. Grand Ave., Beloit, Wis. (B)
 Findorff, J. H., & Son, Inc., 601 W. Wilson St., Madison, Wis. (B)
 Fluor Bros. Constr. Co., 48 Otter St., Oshkosh, Wis. (B-Hvy)
 Ford Constr. Co., 911 S. Jackson St., Janesville, Wis. (B)
 Fritz Constr. Co., 138 N. Frances St., Madison, Wis. (B-Hvy)
 Ganther, Ben B., Co., 78 State St., Oshkosh, Wis. (B)
 Green, Chas. A., & Son, Inc., P. O. Box 195, Appleton, Wis. (H-Hvy)
 Hamann Constr. Co., 408 Commercial St., Manitowoc, Wis. (B)
 Henry, Frank J., 1120 6th St., So., Wisconsin Rapids, Wis. (B)
 Hoepfner-Bartlett Co., 631 E. Madison St., Eau Claire, Wis. (B)
 Hutter Constr. Co., 134 Western Ave., Fond du Lac, Wis. (B)
 Immel Co., 562 N. Main St., Fond du Lac, Wis. (B)
 Johnson & Henrickson, 422 Dodge St., Racine, Wis. (B)
 Jones, L. S., & Son's, Inc., 1013 Villa St., Racine, Wis. (B)
 Meyer, C. R., & Sons Co., 50 State St., Oshkosh, Wis. (B-Hvy)
 Meyer, Edw. H., Constr. Co., P. O. Box 705, Neenah, Wis. (B-Hvy)
 Miron, P. G., Constr. Co., Inc., 139 N. Story St., Appleton, Wis. (B)
 Molzahn, Theo. J., & Sons, Inc., Rear 1812 Madison St., Box 599, La Crosse, Wis. (B)
 Nelson & Co., Inc., 1550 Yout St., Racine, Wis. (B)
 Nelson, Geo., & Son, Inc., 1117 W. Johnson St., Madison, Wis. (B)
 Nelson, Peter, & Son, Inc., 115 S. 4th St., La Crosse, Wis. (B)
 Olmstead, A. C., 1121 Pleasant St., Janesville, Wis. (B)
 Piehl, Myron T., Williams Bay, Wis. (B)
 Schuman Constr. Co., 426 Church St., Kohler, Wis. (B)

(Symbols following names indicate type of construction performed by company; B—Building; H—Highway; Hvy—Heavy; RR—Railroad.)

WISCONSIN—Continued

Schwalbe, F. R., & Son, 313 Rivoli Bldg., La Crosse, Wis. (B)
 Selmer Co., The, 208 Northern Bldg., Green Bay, Wis. (B)
 Smith, Chas. D., & Son, Inc., P. O. Box 508, Fond du Lac, Wis. (B-Hvy)
 Thiele Bros., Allen Grove, Wis. (B)
 Thomsen-Abbott Constr. Co., 211 S. Central Ave., Marshfield, Wis. (B)
 Turner Construction Co., 105 W. Adams St., Chicago 3, Ill. (B)
 Vogel Bros. Bldg. Co., 1321 E. Mifflin St., Madison 3, Wis. (B)
 Willis, T. S., Hayes Bldg., Janesville, Wis. (B)
 Wilschick & Nelson, Inc., 921 15th St., Racine, Wis. (B)
 Zinzow Constr. Co., Inc., 27 N. Wisconsin St., Elkhorn, Wis. (B)

49. WYOMING

(a) ASSOCIATED GENERAL CONTRACTORS OF WYOMING

President—Vern Knisely, Knisely-Moore Co., Box 77, Douglas, Wyo.
Secretary-Treasurer—Homer A. Scott, Peter Kiewit Sons' Co., P. O. Box 875, Sheridan, Wyo.
Telephone: 205-6-7

Arkwright, Stanley H., Inc., 1200 6th Ave., No., P. O. Box 1211, Billings, Mont. (H-Hvy)
 Big Horn Constr. Co., P. O. Box 875, Sheridan, Wyo. (B-H-Hvy-RR)
 Birch, S., & Sons Constr. Co., 314 Ford Bldg., Great Falls, Mont. (H)
 Black Hills Constrs., Inc., % Summit Constr. Co., P. O. Box 1609, Rapid City, S. Dak. (H-Hvy)
 Boatright-Smith, P. O. Box 703, Rawlins, Wyo. (H)
 Brown Constr. Co., 1530 E. Abriendo, Pueblo, Colo. (H)
 Carruth, Geo. M., & Son, Evanston, Wyo. (B-Hvy)
 Forgey Constr. Co., No. 6 Townsend Bldg., Casper, Wyo. (H)
 Gilpatrick, M. J., Constr. Co., Riverton, Wyo. (H)
 Hesser, L. J., P. O. Box 806, Greeley, Colo. (H)
 Hopkins & McPherson, P. O. Box 977, Laramie, Wyo. (H)
 Inland Constr. Co., 414 Hynds Bldg., Box 197, Cheyenne, Wyo. (B-H-Hvy-RR)
 Kiewit, Peter, Sons' Co., P. O. Box 875, Sheridan, Wyo. (B-H-Hvy)
 Knisely-Moore Co., Box 77, Douglas, Wyo. (H)
 Leach Bros., Box 152, Buffalo, Wyo. (H-Hvy-RR)
 Monaghan, J. H. & N. M., & Assoc. Cos., Rt. 1, Derby, Colo. (H)

Morrison-Knudsen Co., Inc., 319 Broadway, Boise, Idaho (H)
 Nelson, N. A., Constr. Co., P. O. Box 644, Sheridan, Wyo. (H)
 Northwestern Engr. Co., P. O. Box 567, Denver 1, Colo. (H)
 Peterson, Elin E., 602 E. 15th St., Casper, Wyo. (H)
 Read, A. H., Co., 706 W. 19th St., Cheyenne, Wyo. (H-Hvy)
 Read Constr. Co., 706 W. 19th St., P. O. Box 357, Cheyenne, Wyo. (H-Hvy)
 Roscoe, W. P., Co., P. O. Box 633, Billings, Mont. (H)
 Sharrock & Pursel, Box 316, Casper, Wyo. (H)
 Smith, Chas. M., Box 508, Thermopolis, Wyo. (B-H)
 Summit Constr. Co., P. O. Box 1609, Rapid City, S. Dak. (H)
 Taggart Constr. Co., P. O. Box 560, Cody, Wyo. (H)
 Teton Constr. Co., P. O. Box 197, Cheyenne, Wyo. (H)
 Woodward Constr. Co., Box 1046, Rock Springs, Wyo. (H)
 Wyoming Constr. Co., P. O. Box 3450, Laramie, Wyo. (H)
 Wyoming Improvement Co., Box 567, Denver, Colo. (B-H-Hvy)

50. ALASKA

(a) ALASKA CHAPTER

President—D. L. Cheney, S. Birch & Sons Constr. Co., 208 Central Bldg., Seattle, Wash.
Manager—L. A. Moore, P. O. Box 992, Anchorage, Alaska
Telephone: 20471

Alaska Concrete Prods. Co., Box 97, Anchorage, Alaska (B)
 Anderson Constr. Co., Inc., 234 Central Bldg., Seattle 3, Wash. (B)
 B & M Constr. Corp., % Res. Engr., Ladd Field, Alaska (Hvy)
 Babler Bros. & Rogers Constr. Co., 4617 S. E. Milwaukie Ave., Portland, Ore. (H-Hvy)
 Badraun, J. J., Girdwood, Alaska (H-Hvy)
 Baldwin, L. E., Inc., 1103 N. 36th, Seattle 3, Wash. (B-H)
 Batchelder & Hazen, Box 1383, Fairbanks, Alaska (B)
 Berg, Chris, Inc., & Assos., Rm. 202 Hawver Bldg., Box 896, Anchorage, Alaska (B)
 Birch, S., & Sons Constr. Co., 208 Central Bldg., Seattle, Wash. (H-Hvy)
 Boen-Sealand Constrs., 3647 Stone Way, Seattle 3, Wash. (B-Hvy)
 Boespflug, J. C., Constr. Co., 1912 4th Ave., So., Seattle 4, Wash. (B-Hvy)
 Braund Constr. Co., Inc., 803 E. H. Box 1774, Anchorage, Alaska (B)

Breeden & Smith, Box 2098, Anchorage, Alaska (B)
 Butcher, Earl L., Box 2051, Fairbanks, Alaska (B-H-Hvy)
 Date, H. G., Box 258, Cordova, Alaska (B-Hvy)
 Haddock Engrs., Ltd. & Assos., Santa Fe, N. Mex. (B-Hvy)
 Hufeisen, C. Wm., Box 1194, Anchorage, Alaska (B)
 Keil & Peterman Co., Box 770, Juneau, Alaska (B-Hvy)
 Kiewit, Peter, Sons' Co., 1300 Aloha, Seattle, Wash. (B)
 Kuney, Max J., Co., Box 4008, Sta. B. N. 120 Ralph St., Spokane 15, Wash. (Hvy)
 Lane, E. V., Co., Pouch 7, Anchorage, Alaska (B-Hvy)
 Lewis Constr. Co., Anchorage, Alaska (B)
 Lytle, C. F., Company & Green Constr. Co., 312 Masonic Temple Bldg., Des Moines, Iowa (H-Hvy-RR)
 McGillvray Bros., Box 1523, Ketchikan, Alaska (B)
 McLaughlin, Inc., Box 225, Valdez, Alaska (H-Hvy-RR)
 Morrison-Knudsen Co., Inc., 603 Hoge Bldg., Seattle, Wash. (B-H-Hvy-RR)
 Mortensen, Nelsae & Co., Inc., 1021 Westlake, No., Seattle 9, Wash. (B)
 Munter, M. P., Co., 1428 Joseph Vance Bldg., Seattle 1, Wash. (H)
 Pacific Constr. Co., 213 E. Reserve, Vancouver, Wash. (B)
 Patti-MacDonald Constr. Co., 3829 W. Pine Blvd., St. Louis 8, Mo. (B)
 Pomeroy, J. H., & Co., Inc., 333 Montgomery St., San Francisco 4, Calif. (Hvy)
 Reed & Martin, Inc., Box 451, Fairbanks, Alaska (B)
 Shaw, N. F., Inc., P. O. Box 2132, Anchorage, Alaska (B)
 Smith & Anderson, Box 321, Fairbanks, Alaska (B)
 Stock & Grove, Inc., Box 2051, Anchorage, Alaska (Hvy)
 Swalling Constr. Co., Inc., Box 1962, Anchorage, Alaska (B-Hvy)
 Thomas Constr. Co., Box 2266, Ketchikan, Alaska (H)
 Valle, Henrik, Co., Inc., Box 4096, Interbay Sta., 407 3d Ave., W., Seattle 99, Wash. (B)
 Warrack, J. B., Co., Box 2384, Anchorage, Alaska (B)
 Waxberg, A. E., Constr. Co., Box 1481, Fairbanks, Alaska (B)
 Williams Equip. Co., Box 1190, Fairbanks, Alaska (B-H-Hvy)

51. HAWAII

Local Member

Pacific Construction Co., Ltd., 1192 Waimanu St., Honolulu 42, T. H. (B-Hvy)

National Members

Atkinson, Guy F., Co., 10 W. Orange Ave., P. O. Box 593, South San Francisco, Calif.;
 806 Cascade Bldg., Portland 4, Oreg.;

P. O. Box 259, Long Beach 1, Calif.;
 342 Skinner Bldg., Seattle 1, Wash. (B-H-Hvy-RR)
 Bates & Rogers Construction Corporation, 600 W. Jackson Blvd., Chicago 6, Ill.;


Rm. 1122, 209 Post St., San Francisco, Calif. (B-Hvy-RR)

(NATIONAL MEMBERS Continued on Page 316)

A.G.C. DIRECTORY

NATIONAL MEMBERS—Continued

- Byrne Organization, Inc., 2607 Connecticut Ave., N. W., Washington 8, D. C. (B)
- Cauldwell-Wingate Company, 101 Park Ave., New York 17, N. Y. (B)
- Condon-Cunningham Co., 4229 Lafayette Ave., Omaha 3, Nebr. (H-Hvy)
- Cowper, John W., Co., Inc., The, 405 Sidway Bldg., Buffalo 3, N. Y. (B)
- Cranford, Frederick L., Inc., Crescent Bldg., 129 Pierrepont St., Brooklyn 2, N. Y. (Hvy)
- Dravo Corporation, The Contracting Division, Neville Island, Pittsburgh 25, Pa. (Hvy-RR)
- Foley Brothers, Inc., Westchester Lighting Co. Bldg., Vermilyea St., Pleasantville, N. Y. (Hvy-RR)
- Forcum-James Co., Dyersburg, Tenn. (B-H-Hvy)
- Ford, Bacon & Davis Construction Corp., 805 S. Grand St., Monroe, La.; 39 Broadway, New York, N. Y. (B-Hvy)
- Fuller, George A., Company, Fuller Bldg., 597 Madison Ave., New York 22, N. Y.; 111 W. Washington St., Chicago 2, Ill.; 11 Beacon St., Boston 8, Mass.; Munsey Bldg., Washington 4, D. C.; 511 Wood St., Pittsburgh 22, Pa. (B)
- General Construction Company, P. O. Box 3244, Seattle 14, Wash.; 4850 N. W. Front Ave., P. O. Box 3860, Portland 8, Oreg. (B-H-Hvy-RR)
- Gilpin Construction Co., The, 4850 N. W. Front Ave., Box 3860, Portland 8, Oreg. (B-H-Hvy-RR)
- Harrison Construction Company, 1101 Western Ave., Pittsburgh 33, Pa. (H-Hvy)
- Johnson, Al Construction Co., 608 Foshay Tower, Minneapolis 2, Minn. (H-Hvy)
- Johnson, W. L., Construction Co., 209 E. High St., Hicksville, Ohio; Box 218, Bexley Sta., Columbus 9, Ohio (H-Hvy)
- Kansas City Bridge Company, 928 Broadway, Kansas City 6, Mo.; Rm. 205, Pioneer Bldg., Lake Charles, La.; Shipyard, Plaquemine, La. (Hvy-RR)
- Koss Construction Company, 205 Farm Bureau Bldg., Des Moines 9, Iowa (H-Hvy-RR)
- List & Clark Construction Company, 729 Railway Exch. Bldg., Kansas City 6, Mo. (H-Hvy-RR)
- Long Construction Company (John C. Long-Robert W. Long), 810 Rialto Bldg., Kansas City 6, Mo. (B-Hvy)
- Lytle, C. F., Company, Box 206, Sioux City, Iowa (H-Hvy-RR)
- Manhattan Construction Co., Manhattan Bldg., Muskogee, Okla.; P. O. Box 1686, Tulsa, Okla.; 1804 Classen Blvd., P. O. Box 3718, Oklahoma City 6, Okla.; P. O. Box 826, Fort Smith, Ark.; 2828 Pease St., Houston 3, Texas (B-Hvy)
- Maxon Construction Company, Inc., 131 N. Ludlow St., Dayton 2, Ohio (Hvy)
- McDevitt & Street Company, 505 Builders Bldg., Box 1847, Charlotte 1, N. C. (B-Hvy)
- McLean Contracting Company, 1301-3 Fidelity Bldg., Baltimore 1, Md. (H-Hvy-RR)
- McWilliams Dredging Company, 860 St. Charles St., P. O. Box 584, New Orleans 7, La. (Hvy)
- Merritt-Chapman & Scott Corp., 17 Battery Pl., New York, N. Y.; New London, Conn.; Cleveland, Ohio (B-Hvy)
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- Oman Construction Company, P. O. Box 146, Nashville 2, Tenn. (B-H-Hvy-RR)
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- Progressive Bldrs., Inc., Crescent Blvd. & Norwood Ave., Pennsauken, N. J. (B-Hvy)
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- Reniger Constr. Co., Box 688, M. O., Lansing 3, Mich. (B-H-Hvy)
- Rust Engineering Co., The, Rust Bldg., 575 Sixth Ave., Pittsburgh 19, Pa.; 902 Denrike Bldg., 1010 Vermont Ave., N. W., Washington 5, D. C.; 519 Lincoln Bldg., 60 E. 42d St., New York 17, N. Y.; Exchange Bldg., 2109 5th Ave., No., Birmingham 3, Ala. (B-Hvy)
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- Teichert, A., & Son, Inc., 1846 37th St., Sacramento 5, Calif. (H-Hvy-RR)
- Terteling, J. A., & Sons, Inc., P. O. Box 1428, Boise, Idaho (B-H-Hvy-RR)
- Tidewater Construction Corporation, P. O. Box 57, Norfolk 1, Va. (B-H-Hvy-RR)
- Tompkins, Chas. H., Co., 907 16th St., N. W., Washington 6, D. C.; 3811 Gaston Ave., Dallas, Texas; 557 8th Ave., Fort Worth, Texas (B-Hvy)
- Tuller Construction Company, The, 95 Monmouth St., Red Bank, N. J. (B-H-Hvy-RR)
- Turner Construction Co., 420 Lexington Ave., New York 17, N. Y.; 1500 Walnut St., Philadelphia 2, Pa.; 38 Newbury St., Boston 16, Mass.; Bankers' Bldg., 105 W. Adams St., Chicago 3, Ill. (B)
- United Construction Co., 64 W. 5th St., Winona, Minn. (H-Hvy)
- United Engineers & Constructors Inc., 1401 Arch St., Philadelphia 5, Pa. (B-Hvy-RR)
- Utah Construction Co., The, 719 First Security Bank Bldg., Ogden, Utah; 1 Montgomery St., San Francisco 4, Calif.; 57 E. 4th, So., Salt Lake City 10, Utah (B-H-Hvy-RR)
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- Walbridge, Aldinger Company, 409 Griswold St., Detroit 26, Mich. (B-H-Hvy-RR)
- Walsh Construction Company—Davenport, Iowa
General office: 122 E. 42d St., New York 17, N. Y.
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- Webb, Del E., Constr. Co., P. O. Box 4066, Phoenix, Ariz.; 5101 San Fernando Rd., W., Los Angeles 39, Calif. (B-Hvy)
- Western Contracting Corporation, 400 Benson Bldg., Sioux City 15, Iowa; 907 Transamerica Bldg., 649 S. Olive St., Los Angeles, Calif. (H-Hvy)
- Wigton-Abbott Corporation, 1225 South Ave., Plainfield, N. J. (B)
- Winkelman, D. W., Co. Inc., 205 Harrison St., Syracuse 2, N. Y. (H)
- Winston Bros. Company, 1470 Northwestern Bank Bldg., Minneapolis 2, Minn.; 1532 S. California Ave., Monrovia, Calif. (B-H-Hvy-RR)
- Wunderlich Contracting Company, 206 Patterson Bldg., Omaha 2, Nebr. (H-Hvy)
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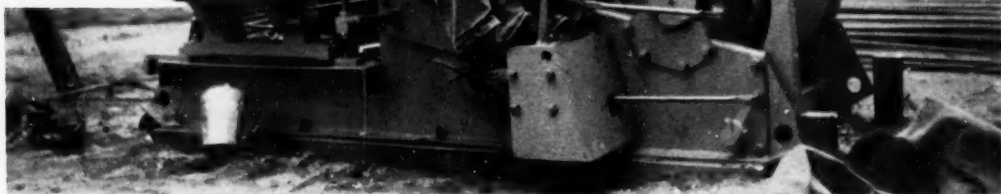
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